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 * /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/ClockSource.java
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1.11 protobuf-java 3.12.2

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  jar/com/google/protobuf/AbstractParser.java
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  jar/com/google/protobuf/ProtobufArrayList.java
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include/GL/gl.h:

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1.26 jaxb-runtime 2.3.3

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1.28 py3-tomli 1.2.2-r0

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1.33 jetty-servlet 9.4.11.v20180605

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* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ListenerHolder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/Source.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/jmx/ServletMappingMBean.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/jmx/ServletMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/DefaultServlet.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/NoJspServlet.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ServletContextHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ServletHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/package-info.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/ELContextCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/ErrorPageErrorHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/Holder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/FilterMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/package-info.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/ELContextCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/jmx/package-info.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/Holder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ErrorPageErrorHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/FilterMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/Holder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ErrorPageErrorHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/FilterMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/Holder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ErrorPageErrorHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/FilterMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/Holder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/ErrorPageErrorHandler.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/org/eclipse/jetty/servlet/FilterMapping.java
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* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-jar/about.html

1.34 cxf-rt-frontend-jaxrs 2.7.3

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1.35 spring-security-core 3.0.0.RELEASE

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/**
 * A token issued by [TokenService].
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
they can serve as identifying a unique user session. Implementations of \{@link TokenService\} are free to use encryption or encoding strategies of their choice. It is strongly recommended that keys are of sufficient length to balance safety against persistence cost. In relation to persistence cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.

*/

* @author Ben Alex
* @since 2.0.1
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/core/token/Token.java

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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null in which case implementations should return false, as the null condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/access/PermissionEvaluator.java

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  jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
  jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
  jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
  jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java

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*  
* $Id: adaptertest

Found in path(s):
*/
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation.
* See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
* <p>
* For internal use only.
* 
* @author Luke Taylor
* @version $Id$
* @since 3.0
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
jar/org/springframework/security/core/codec/Base64.java

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*/

/**
 * Reviews the <code>Object</code> returned from a secure object invocation,
 * being able to modify the <code>Object</code> or throw an [ @link
 * AccessDeniedException].
 * 
 * @author Luke Taylor
* @version $Id$
* @since 3.0
*/

/ *
* Typically used to ensure the principal is permitted to access the domain
* object instance returned by a service layer bean. Can also be used to
* mutate the domain object instance so the principal is only able to access
* authorised bean properties or <code>Collection</code> elements. Often used
* in conjunction with an [ @link org.springframework.security.acl.AclManager] to
* obtain the access control list applicable for the domain object instance.
* Special consideration should be given to using an
  * `<code>AfterInvocationManager</code>` on bean methods that modify a database.
  * Typically an `<code>AfterInvocationManager</code>` is used with read-only
  * methods, such as `<code>public DomainObject getById(id)</code>`. If used with
  * methods that modify a database, a transaction manager should be used to
  * ensure any `<code>AccessDeniedException</code>` will cause a rollback of the
  * changes made by the transaction.

* @author Ben Alex
* @version $Id: AfterInvocationManager.java 3927 2009-10-06 19:46:44Z Itaylor $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
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  jar/org/springframework/security/authentication/CredentialsExpiredException.java
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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
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jar/org/springframework/security/access/event/AuthorizedEvent.java
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jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
jar/org/springframework/security/authentication/LockedException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
  jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
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  jar/org/springframework/security/access/intercept/aspectj/AspectJSecurityInterceptor.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
  jar/org/springframework/security/authentication/encoding/BaseDigestPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3.0.0-release-sources-
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/**
 * Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.
 */
* @author Alan Stewart
* /

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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/authentication/encoding/Md4.java
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1.36 commons-io 1.3.2

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Apache Jakarta HttpClient

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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
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inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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1.43 jackson-jaxrs-base 2.10.5

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1.49 apache-log4j 2.17.2

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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OptionalSslHandler.java
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 * /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/stream/ChunkedInput.java
 * /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/timeout/package-info.java
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jar/io/netty/handler/ssl/PemEncoded.java
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2001-12-12

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-- activemq-web
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===========================================================================

 aftermatho/standardista-table-sorting.js library
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.62 javassist 3.25.0-GA

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 */

Found in path(s):
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java
<table>
<thead>
<tr>
<th>File Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>jar/javaassist/bytecode/DuplicateMemberException.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/bytecode/NestHostAttribute.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/bytecode/ScopedClassPool.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/ClassPoolTail.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/ClassPath.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/convert/TransformNewClass.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/bytecode/SourceFileAttribute.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/util/SecurityActions.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/compiler/TypeChecker.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/compiler/ClassMap.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/compiler/ast/FieldDecl.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/bytecode/LongVector.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/tools/web/Webserver.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/ClassFileWriter.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/compiler/ast/Stmt.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/tools/reflect/Reflection.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/compiler/compiler/MemberCodeGen.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/tools/rmi/ObjectImporter.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1135869399_1613618193.6/0/javaassist-3-25-0-ga-sources-3-jar/javaassist/scopedpool/ScopedClassPoolRepository.java</td>
</tr>
</tbody>
</table>
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/FieldAccess.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
1.63 spring-plugin-core 2.0.0.RELEASE

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 *```
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/**
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 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * </p>
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 * </p>
 * </p>
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 * </p>
 * <pre>
 * [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
 * public void createEvent(Date start, Date end) [ ... ]
 * ]
 * </pre>
Can be specified on any method or constructor.

@<p>

@author Gunnar Morling

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 * jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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 * /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
 * jar/org/hibernate/validator/internal/util/TypeHelper.java
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 * /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
 * jar/org/hibernate/validator/spi/resourceloading/package.html
 * /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
 * jar/org/hibernate/validator/constraints/b/br/package.html
 * /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
 * jar/org/hibernate/validator/constraints/package.html
 * /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
 * jar/org/hibernate/validator/internal/engine/package.html
 * /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
INF/validation-mapping-1.0.xsd
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/util/annotationfactory/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/util/classhierarchy/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/aggregated/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/facets/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/logging/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/xml/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/impl/GroupConversionImpl.java

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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/impl/GroupConversionImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/
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jar/org/hibernate/validator/internal/xml/ConstrainedParameterBuilder.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/metadata/core/MetaConstraint.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/util/StringHelper.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
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jar/org/hibernate/validator/internal/xml/ConstrainedFieldBuilder.java
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jar/org/hibernate/validator/internal/metadata/engine/HibernateConstraintViolation.java
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/cfg/context/MethodConstraintMappingContext.java
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/internal/context/PropertyConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/hibernatevalidator/HibernateValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/hibernatevalidator/context/PropertyConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/hibernatevalidator/internal/util/IgnoreJava6Requirement.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/hibernatevalidator/HibernateValidatorFactory.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/hibernatevalidator/internal/cfg/context/DefaultConstraintMapping.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validation/hibernatevalidator/cfg/defs/LengthDef.java

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jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

1.68 pep517 0.8.2

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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1-
  jar/org/springframework/web/portlet/DispatcherPortlet.java
* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1-
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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1-
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# Jackson JSON processor

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

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### 1.95 hk2-api 2.2.0

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*/
/**
* A decoder that splits the received ByteBufs dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* LengthFieldBasedFrameDecoder has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
The value of the length field in this example is `12 (0x0C)` which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 0 (= do not strip header)
```

**BEFORE DECODE (14 bytes) | AFTER DECODE (14 bytes)**

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

Because we can get the length of the content by calling `ByteBuf#readableBytes()`, you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

**BEFORE DECODE (14 bytes) | AFTER DECODE (12 bytes)**

```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero length field at offset 0, do not strip header:

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 0 (= do not strip header)
```

**BEFORE DECODE (14 bytes) | AFTER DECODE (14 bytes)**

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)
<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero header from the frame. If you don't want to strip the prepended header, you could specify <tt>&lt;tt&gt;0&lt;/tt&gt;</tt> for <tt>&lt;tt&gt;initialBytesToSkip&lt;/tt&gt;</tt>.

* <pre>
  lengthFieldOffset   = 1 (= the length of HDR1)
  lengthFieldLength   = 2
  &lt;b&gt;lengthAdjustment&lt;/b&gt;   = &lt;b&gt;1&lt;/b&gt; (= the length of HDR2)
  &lt;b&gt;initialBytesToStrip&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt; (= the length of HDR1 + LEN)
</pre>

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +---------+----------+---------+----------------+      +---------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------+----------+---------+----------------+      +---------+----------------+

<h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message</h3>

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

* <pre>
  lengthFieldOffset   = 1
  lengthFieldLength   = 2
  &lt;b&gt;lengthAdjustment&lt;/b&gt;   = &lt;b&gt;-3&lt;/b&gt; (= the length of HDR1 + LEN, negative)
  &lt;b&gt;initialBytesToStrip&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt;
</pre>

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +---------+----------+---------+----------------+      +---------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +---------------------------------+ +---------------------------------+
* @see LengthFieldPrepender
*/

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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/DecoderResultProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java

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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
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A. HISTORY OF THE SOFTWARE

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

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

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

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1.123 cxf-rt-transports-http-jetty 2.7.11

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

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

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

DOCUMENTATION ROADMAP
=======================
This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.
Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the hierarchical or lossless processes defined in the standard.
We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

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

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

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

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

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

We are required to state that

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REFERENCES
==========

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

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

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

The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.
ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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

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

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

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RELATED SOFTWARE
================

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

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

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

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

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

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

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

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

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

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

As always, speeding things up is of great interest.

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

1.125 alpine-baselayout 3.2.0-r7

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* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-Opt@
  codehaus/cargo/module/webapp/DefaultWarArchive.java
* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-Opt@
  codehaus/cargo/module/application/EarArchive.java
* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-Opt@
  codehaus/cargo/module/webapp/WebXmlTag.java
* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-Opt@
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that the application requires that the data be transmitted in a

fashion that prevents other entities from observing the contents of
the transmission. In most cases, the presence of the INTEGRAL or
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Used in: user

Found in path(s):
* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-imp/cargo-core-
api-module-1-0-2-sources-jar/org/codehaus/cargo/module/internal/resource/orion-web-9_04.dtd
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CONFIDENTIAL flag will indicate that the use of SSL is required.

Used in: port

Found in path(s):
* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-imp/cargo-core-
api-module-1-0-2-sources-jar/org/codehaus/cargo/module/internal/resource/jboss_4_0.dtd
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The confidentiality tag determines transport confidentiality requirements for the bean. Confidentiality ensures that the data be sent between the client and server in such a way to prevent other entities from observing the contents of the transmission.

The confidentiality can be one of the following values:

requirements

Example:
<confidentiality>none</confidentiality>

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* /opt/cola/permits/1007687207_1660061515.861319/0/cargo-core-api-module-1-0-2-sources-jar-zip/cargo-core-
Open Source Used In Crosswork Common EMS Services 4.0.0

api-module-1-0-2-sources-jar/org/codehaus/cargo/module/internal/resource/weblogic-ejb-jar.dtd
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<!ELEMENT confidentiality (#PCDATA)>

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The packages:

com.hazelcast.internal.util.collection
com.hazelcast.internal.util.concurrent

and the classes:
com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).

The class com.hazelcast.internal.util.HashUtil contains code originating
from the Koloboke project (https://github.com/OpenHFT/Koloboke).

The class classloading.ThreadLocalLeakTestUtils contains code originating
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com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating
from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating
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The class com.hazelcast.instance.impl.MobyNames contains code originating
from The Moby Project (https://github.com/moby/moby).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder contains code
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1.135 postgresql-common 1.1-r0

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1.136 netty-tcnative 2.0.51.Final
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Manifest-Version: 1.0
Implementation-Title: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.
Automatic-Module-Name: io.netty.tcnative.openssl.osx-x86_64
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Bundle-SymbolicName: io.netty.tcnative
Implementation-Version: 2.0.51.Final
Built-By: norman
Bnd-LastModified: 1646990978815
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Fragment-Host: io.netty.tcnative-classes
Tool: Bnd-5.1.1.202006162103
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Version: 2.0.51.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://github.com/netty/netty-tcnative/netty-tcnative/

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### 1.139 idna 2.9

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Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/LICENSE.rst
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===

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

===

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}  
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [  

'Development Status :: 5 - Production/Stable',
'Intended Audience :: Developers',
'Intended Audience :: System Administrators',
'License :: OSI Approved :: BSD License',
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*,'
'test_suite': 'tests',
}]

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.140 lombok 1.18.2

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1.141 plexus-utils 3.2.1

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1.142 javax-annotation-api 1.3.2

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* /opt/cola/permits/1258903337_1643118323.99/0/netty-tnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tnative/Buffer.java
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  jar/io/netty/internal/tnative/SSLContext.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eea4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)",resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)",resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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jar/io/netty/internal/tnative/CertificateRequestedCallback.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tnative/SessionTicketKey.java

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* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/commonslog/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/LoggingStopWatch.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/StopWatch.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/helpers/StopWatchParser.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/TimingStatistics.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/chart/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/chart/GoogleChartGenerator.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/log4j/servlet/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/commonslog/aop/TimingAspect.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/log4j/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/slf4j/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/slf4j/Slf4JStopWatch.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/servlet/AbstractGraphingServlet.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/commonslog/aop/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/log4j/AsyncCoalescingStatisticsAppender.java

1.147 jetty 9.4.45.v20220203

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.148 person-directory-api 1.5.0-RC6

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 */

Found in path(s):
* /opt/cola/permits/1111263598_1608548468.58/0/person-directory-api-1-8-2-sources-
  jar/org/apereo/services/persondir/IPersonAttributeScriptDao.java
* /opt/cola/permits/1111263598_1608548468.58/0/person-directory-api-1-8-2-sources-
  jar/org/apereo/services/persondir/IPersonAttributes.java
* /opt/cola/permits/1111263598_1608548468.58/0/person-directory-api-1-8-2-sources-
  jar/org/apereo/services/persondir/IPersonAttributeDao.java

1.149 markupsafe 2.1.1

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[metadata]
name = MarkupSafe
version = attr: markupsafe.__version__
url = https://palletsprojects.com/p/markupsafe/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://markupsafe.palletsprojects.com/
  Changes = https://markupsafe.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/markupsafe/
  Issue Tracker = https://github.com/pallets/markupsafe/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely add untrusted strings to HTML/XML markup.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings =
error

[coverage:run]
branch = True
source =
markupsafe
tests

[coverage:paths]
source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80

[mypy]
files = src/markupsafe
python_version = 3.7
show_error_codes = True
disable_subclassing_any = True
disable_untyped_calls = True
disallow_untypeddefs = True
disallow_incomplete_defs = True
noImplicitOptional = True
localPartialTypes = True
noImplicitReexport = True
strictEquality = True
warnRedundantCasts = True
warnUnusedConfigs = True
warnUnusedIgnores = True
warnReturnAny = True
warnUnreachable = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2.1.1.tar.gz/MarkupSafe-2.1.1/setup.cfg

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Metadata-Version: 2.1
Name: MarkupSafe
Version: 2.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
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Project-URL: Changes, https://markupsafe.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
License-File: LICENSE.rst

MarkupSafe
==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing
----------

Install and update using `pip`:

.. code-block:: text

   pip install -U MarkupSafe


Examples
--------

.. code-block:: pycon

   >>> from markupsafe import Markup, escape

   >>> # escape replaces special characters and wraps in Markup
   >>> escape("<script>alert(document.cookie);</script>")
   Markup('<script>alert(document.cookie);</script>')

   >>> # wrap in Markup to mark text "safe" and prevent escaping
   >>> Markup("<strong>Hello</strong>")
   Markup('<strong>hello</strong>')</n
   >>> escape(Markup("<strong>Hello</strong>"))
   Markup('<strong>hello</strong>')</n
   >>> # Markup is a str subclass
   >>> # methods and operators escape their arguments
   >>> template = Markup("Hello <em>{name}</em>")
   >>> template.format(name="World")
   Markup('Hello <em>&#34;World&#34;</em>')
The Pallets organization develops and supports MarkupSafe and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://markupsafe.palletsprojects.com/
- Changes: https://markupsafe.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/MarkupSafe/
- Source Code: https://github.com/pallets/markupsafe/
- Issue Tracker: https://github.com/pallets/markupsafe/issues/
- Website: https://palletsprojects.com/p/markupsafe/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/src/MarkupSafe.egg-info/PKG-INFO
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/PKG-INFO

1.150 reflections 0.9.9-RC1

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1.151 xml-apis 2.0.2

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

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

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/**
 * Basic interface for SAX error handlers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* `{@link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}`
* method. The parser will then report all errors and warnings
* through this interface.</p>
* 
* <p><strong>WARNING:</strong> If an application does <em>not</em> register an ErrorHandler, XML parsing errors will go unreported
* and bizarre behaviour may result.</p>
* 
* <p>For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application
* to decide whether to throw an exception for different types of
* errors and warnings. Note, however, that there is no requirement that
* the parser continue to provide useful information after a call to
* `{@link #fatalError fatalError}` (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
* 
* @since SAX 1.0
* @author David Megginson,
* battleship<sax@megginson.com>sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
/optional/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * 
 * <p>This interface allows access to a list of attributes in
 * three different ways:</p>
 * 
 * <ol>
 * <li>by attribute index;</li>
 * <li>by Namespace-qualified name; or</li>
 * <li>by qualified (prefixed) name.</li>
 * </ol>
* The list will not contain attributes that were declared *
* #IMPLIED but not specified in the start tag. It will also not *
* contain attributes used as Namespace declarations (xmlns*) unless *
* the <code>http://xml.org/sax/features/namespaces</code> *
* feature is set to <var>true</var> (it is <var>false</var> by *
* default). </p>
*
* If the namespace-prefixes feature (see above) is <var>false</var>, *
* access by qualified name may not be available; if the *
* <code>http://xml.org/sax/features/namespaces</code> *
* feature is <var>false</var>, access by Namespace-qualified names *
* may not be available. </p>
*
* This interface replaces the now-deprecated SAX1 [@link *
* org.xml.sax.AttributeList AttributeList] interface, which does not *
* contain Namespace support. In addition to Namespace support, it *
* adds the <var>getIndex</var> methods (below). </p>
*
* The order of attributes in the list is unspecified, and will *
* vary from implementation to implementation. </p>
*
* @since SAX 2.0 *
* @author David Megginson, *
*       <a href="mailto:sax@megginson.com">sax@megginson.com</a> *
* @version 2.0 *
* @see org.xml.sax.helpers.AttributeListImpl *
*/

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

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/**
 * Default implementation for AttributeList.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 */
 *
 * AttributeList implements the deprecated SAX1 [@link *
 * org.xml.sax.AttributeList AttributeList] interface, and has been *
 * replaced by the new SAX2 [@link org.xml.sax.helpers.AttributesImpl *
 * AttributesImpl] interface. </p>
 *
 * This class provides a convenience implementation of the SAX *
 * [@link org.xml.sax.AttributeList AttributeList] interface. This *
 * implementation is useful both for SAX parser writers, who can use
it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications:

```
private AttributeList myatts;

public void startElement (String name, AttributeList atts)
{
    // create a persistent copy of the attribute list
    // for use outside this method
    myatts = new AttributeListImpl(atts);
    [...]
}
```

Please note that SAX parsers are not required to use this class to provide an implementation of AttributeList; it is supplied only as an optional convenience. In particular, parser writers are encouraged to invent more efficient implementations.

@deprecated This class implements a deprecated interface, `org.xml.sax.AttributeList`; that interface has been replaced by `org.xml.sax.Attributes`, which is implemented in the `org.xml.sax.helpers.AttributesImpl` helper class.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>

@version 2.0
@see org.xml.sax.AttributeList
@see org.xml.sax.DocumentHandler#startElement

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/AttributeListImpl.java
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// NO WARRANTY! This class is in the Public Domain.
An XML filter is like an XML reader, except that it obtains its events from another XML reader rather than a primary source like an XML document or database. Filters can modify a stream of events as they pass on to the final application.

The XMLFilterImpl helper class provides a convenient base for creating SAX2 filters, by passing on all `EntityResolver`, `DTDHandler`, `ContentHandler` and `ErrorHandler` events automatically.

@since SAX 2.0

@author David Megginson, sax@megginson.com

@version 2.0

@see org.xml.sax.helpers.XMLFilterImpl

/*

Interface for associating a SAX event with a document location.

*/

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

Note that the results returned by the object will be valid only during the scope of each content handler method; the application will receive unpredictable results if it attempts to use the locator at any other time.

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

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

/**
* Receive notification of basic DTD-related events.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* If a SAX application needs information about notations and
* unparsed entities, then the application implements this
* interface and registers an instance with the SAX parser using
* the parser's setDTDHandler method. The parser uses the
* instance to report notation and unparsed entity declarations to
* the application.</p>
* 
* Note that this interface includes only those DTD events that
* the XML recommendation requires processors to report:
* notation and unparsed entity declarations.</p>
* 
* The SAX parser may report these events in any order, regardless
* of the order in which the notations and unparsed entities were
* declared; however, all DTD events must be reported after the
* document handler's startDocument event, and before the first
* startElement event.</p>
* 
* It is up to the application to store the information for
* future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
* obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>
* @since SAX 1.0
* @author David Megginson,
   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDTDHandler
* @see org.xml.sax.HandlerBase
*

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

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originally based on software copyright (c) 1999-2001, Sun Microsystems,
Foundation, please see <http://www.apache.org/>.

/**
   * Default base class for handlers.
   *
   * <blockquote>
   *   <em>This module, both source code and documentation, is in the
   *   Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
   * </blockquote>
   *
   * This class implements the default behaviour for four SAX1
   * interfaces: EntityResolver, DTDHandler, DocumentHandler,
   * and ErrorHandler. It is now obsolete, but is included in SAX2 to
   * support legacy SAX1 applications. SAX2 applications should use
   * the `{ @link org.xml.sax.helpers.DefaultHandler DefaultHandler }`
   * class instead.</p>
   *
   * Application writers can extend this class when they need to
   * implement only part of an interface; parser writers can
   * instantiate this class to provide default handlers when the
   * application has not supplied its own.</p>
   *
   * Note that the use of this class is optional.</p>
   *

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

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

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

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*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMBuilderFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMInputSource.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DocumentLS.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/xpath/XPathNSResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/xpath/XPathResult.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/xpath/XPathExpression.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMEntityResolver.java
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 * the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
 * PURPOSE.
 * See W3C License http://www.w3.org/Consortium/Legal/ for more details.
 */

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

Found in path(s):
* /opt/cola/permits/115916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
 * Interface for an element's attribute specifications.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This is the original SAX1 interface for reporting an element's
 * attributes. Unlike the new {@link org.xml.sax.Attributes Attributes}
 * interface, it does not support Namespace-related information.</p>
 *
 * <p>When an attribute list is supplied as part of a
 * event, the list will return valid results only during the
 * scope of the event; once the event handler returns control
 * to the parser, the attribute list is invalid. To save a
* persistent copy of the attribute list, use the SAX1
* [ @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl ]
* helper class.</p>
* 
* &lt;p&gt;An attribute list includes only attributes that have been
* specified or defaulted: #IMPLIED attributes will not be included.&lt;/p&gt;
* 
* &lt;p&gt;There are two ways for the SAX application to obtain information
* from the AttributeList. First, it can iterate through the entire
* list:&lt;/p&gt;
* 
* &lt;pre&gt;
* public void startElement (String name, AttributeList atts) {
*   for (int i = 0; i < atts.getLength(); i++) {
*     String name = atts.getName(i);
*     String type = atts.getType(i);
*     String value = atts.getValue(i);
*     [...]
*   }
* }
* &lt;/pre&gt;
* 
* &lt;p&gt;(Note that the result of getLength() will be zero if there
* are no attributes.)
* 
* &lt;p&gt;As an alternative, the application can request the value or
* type of specific attributes:&lt;/p&gt;
* 
* &lt;pre&gt;
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* &lt;/pre&gt;
* 
* @deprecated This interface has been replaced by the SAX2
* [ @link org.xml.sax.Attributes Attributes ]
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com"&gt;sax@megginson.com&lt;/a&gt;
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/
/*
 * Receive notification of general document events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This was the main event-handling interface for SAX1; in
 * SAX2, it has been replaced by [link org.xml.sax.ContentHandler
 * ContentHandler], which provides Namespace support and reporting
 * of skipped entities. This interface is included in SAX2 only
 * to support legacy SAX1 applications.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * Application writers who do not want to implement the entire
 * interface can derive a class from HandlerBase, which implements
 * the default functionality; parser writers can instantiate
 * HandlerBase to obtain a default handler. The application can find
 * the location of any document event using the Locator interface
 * supplied by the Parser through the setDocumentLocator method.</p>
 *
 * @deprecated This interface has been replaced by the SAX2
 * [link org.xml.sax.ContentHandler ContentHandler]
 * interface, which includes Namespace support.
 *
 * Since SAX 1.0
 *
 * Author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 *
 * Version 2.0
 *
 * See org.xml.sax.Parser#setDocumentHandler
 * See org.xml.sax.Locator
 * See org.xml.sax.HandlerBase
 */

// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:</p>
 *
 * try {
 *   XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 *   System.err.println(e.getMessage());
 * }
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderFactory.java
No license file was found, but licenses were detected in source scan.

// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.</p>
This class encapsulates the logic of Namespace processing:
* it tracks the declarations currently in force for each context
* and automatically processes qualified XML 1.0 names into their
* Namespace parts; it can also be used in reverse for generating
* XML 1.0 from Namespaces.</p>

* Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>

Here is a simple session:

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

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

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

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

support.popContext();
```

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

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

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/NamespaceSupport.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * This class is available as a convenience base class for SAX2
 * applications: it provides default implementations for all of the
 * callbacks in the four core SAX2 handler classes:
 *
 * <ul>
 * <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
 * <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
 * <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
 * <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
 * </ul>
 * Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.
 *
 * This class replaces the deprecated SAX1
 * [ @link org.xml.sax.HandlerBase HandlerBase ] class.
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/DefaultHandler.java
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/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the

* Public Domain, and comes with <strong>NO WARRANTY</strong>.

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

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

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXException
@see org.xml.sax.Locator
@see org.xml.sax.ErrorHandler

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/**
 * Basic interface for resolving entities.
 *
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </quote>
If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the

\{@link org.xml.sax.XMLReader#setEntityResolver setEntityResolver\} method.\</p>\*
\*<p>The XML reader will then allow the application to intercept any external entities (including the external DTD subset and external parameter entities, if any) before including them.\</p>\*
\*<p>Many SAX applications will not need to implement this interface, but it will be especially useful for applications that build XML documents from databases or other specialised input sources, or for applications that use URI types other than URLs.\</p>\*
\*<p>The following resolver would provide the application with a special character stream for the entity with the system identifier "http://www.myhost.com/today":\</p>\*
\*<pre>\import org.xml.sax.EntityResolver;\import org.xml.sax.InputSource;\*\*public class MyResolver implements EntityResolver {\*\*public InputSource resolveEntity (String publicId, String systemId) \{\*\*if (systemId.equals("http://www.myhost.com/today")) \{\*\*\*\*return a special input source\*\*MyReader reader = new MyReader();\*\*return new InputSource(reader);\*\*\} else \{\*\*\*use the default behaviour\*\*return null;\*\*\}\*\}\*\}</pre>\*\*<p>The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).\</p>\*
\*\*@since SAX 1.0\*\*@author David Megginson, \*\a href="mailto:sax@megginson.com">sax@megginson.com</a>\*\*@version 2.0\*\*@see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java
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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/package.html
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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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/**
 * Provide an optional convenience implementation of Locator.
 */
This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.

This class is available mainly for application writers, who can use it to make a persistent snapshot of a locator at any point during a document parse:

```java
Locator locator;
Locator startloc;

public void setLocator (Locator locator)
{
    // note the locator
    this.locator = locator;
}

public void startDocument ()
{
    // save the location of the start of the document
    // for future use.
    Locator startloc = new LocatorImpl(locator);
}
```

Normally, parser writers will not use this class, since it is more efficient to provide location information only when requested, rather than constantly updating a Locator object.

@since SAX 1.0
@version 2.0
@see org.xml.sax.Locator

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* <ol>
* <li>it adds a standard way to query and set features and
* properties; and</li>
* <li>it adds Namespace support, which is required for many
* higher-level XML standards.</li>
* </ol>
* 
* <p>There are adapters available to convert a SAX1 Parser to
* a SAX2 XMLReader and vice-versa.</p>
*
* @since SAX 2.0
* @author David Megginson,
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/

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

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/**
* A single input source for an XML entity.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</p>
*
* <p>There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method.</p>
*
* <p>The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>
An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary).

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

/**
 * Exception class for an unsupported operation.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * An XMLReader will throw this exception when it recognizes a feature or property identifier, but cannot perform the requested operation (setting a state or value). Other SAX2 applications and extensions may use this class for similar purposes.
 *
 * @since SAX 2.0
 * @author David Megginson,
 <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXNotRecognizedException
 */

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// NO WARRANTY!  This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 */
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * @since SAX 2.0
Adapt a SAX1 AttributeList as a SAX2 Attributes object.

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

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

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

There are two typical uses of this class:

- to take a persistent snapshot of an Attributes object in a `ContentHandler#startElement` event; or
- to construct or modify an Attributes object in a SAX2 driver or filter.

// NO WARRANTY! This class is in the public domain.
This class replaces the now-deprecated SAX1 \{@link org.xml.sax.helpers.AttributeListImpl AttributeListImpl\} class; in addition to supporting the updated Attributes interface rather than the deprecated \{@link org.xml.sax.AttributeList AttributeList\} interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.</p>

@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/AttributesImpl.java
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// NO WARRANTY! This class is in the Public Domain.
/**
* Create a new instance of a class by name.
*
* <blockquote>
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* </blockquote>
*
* This class contains a static method for creating an instance of a class from an explicit class name. It tries to use the thread's context ClassLoader if possible and falls back to using Class.forName(String). It also takes into account JDK 1.2+'s AccessController mechanism for performing its actions.</p>
*
* This code is designed to run on JDK version 1.1 and later and compile on versions of Java 2 and later.</p>
*
@author Edwin Goei, David Brownell, Neil Graham
@version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp$

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/NewInstance.java
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/**
* Encapsulate a general SAX error or warning.
This class can contain basic error or warning information from either the XML parser or the application: a parser writer or application writer can subclass it to provide additional functionality. SAX handlers may throw this exception or any exception subclassed from it.

If the application needs to pass through other types of exceptions, it must wrap those exceptions in a SAXException or an exception derived from a SAXException.

If the parser or application needs to include information about a specific location in an XML document, it should use the SAXParseException subclass.

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

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

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unrecognized identifier.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </blockquote>
 */

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

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*/
/**
 * Create a new <code>DOMBuilder</code>. The newly constructed parser may
 * then be configured by means of its <code>setFeature</code> method,
 * and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>DOMBuilder</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>DOMBuilder</code> that is created will operate in
 *   asynchronous mode.
 * @param schemaType  An absolute URI representing the type of the schema
 *   language used during the load of a <code>Document</code> using the
 *   newly created <code>DOMBuilder</code>. Note that no lexical
 *   checking is done on the absolute URI. In order to create a
 *   <code>DOMBuilder</code> for any kind of schema types (i.e. the
 *   DOMBuilder will be free to use any schema found), use the value
 *   <code>null</code>. For W3C XML Schema, applications must use the
value "http://www.w3.org/2001/XMLSchema". For XML DTD
, applications must use the value
"http://www.w3.org/TR/REC-xml". Other Schema languages
are outside the scope of the W3C and therefore should recommend an
absolute URI in order to use this method.

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

@exception DOMException
NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
not supported.
*/

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
 * </em></quote>
 *
 * <p>This was the main event supplier interface for SAX1; it has
 * been replaced in SAX2 by {link org.xml.sax.XMLReader XMLReader},
 * which includes Namespace support and sophisticated configurability
 * and extensibility.</p>
 *
 * <p>All SAX1 parsers must implement this basic interface: it allows
 * applications to register handlers for different types of events
 * and to initiate a parse from a URI, or a character stream.</p>
 *
 * <p>All SAX1 parsers must also implement a zero-argument constructor
 * (though other constructors are also allowed).</p>
 *
 * SAX1 parsers are reusable but not re-entrant: the application
 * may reuse a parser object (possibly with a different input source)

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* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
*           { @link org.xml.sax.XMLReader XMLReader}
*           interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax/DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the { @link
 * org.xml.sax/DTDHandler DTDHandler} interface.</p>
 *
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
 * { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD} events.</p>
 *
 * To set the DeclHandler for an XML reader, use the
 * { @link org.xml.sax.XMLReader#setProperty setProperty} method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
* If the reader does not support declaration events, it will throw a
  * {@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
  * or a
  * {@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException}
  * when you attempt to register the handler.</p>
  *
  *
  * @since 1.0
  * @author David Megginson,
  *        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
  * @version 1.0
  * @see org.xml.sax.XMLReader
  */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java
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 * Java-specific class for dynamically loading SAX parsers.
 *
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 * for further information.
 * </blockquote>
 *
 * <p><strong>Note:</strong> This class is designed to work with the now-deprecated
 * SAX1 {@link org.xml.sax.Parser Parser} class. SAX2 applications should use
 * {@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory} instead.</p>
 *
 * <p>ParserFactory is not part of the platform-independent definition
 * of SAX; it is an additional convenience class designed
 * specifically for Java XML application writers. SAX applications
 * can use the static methods in this class to allocate a SAX parser
 * dynamically at run-time based either on the value of the
 * `org.xml.sax.parser' system property or on a string containing the class
 * name.</p>
 *
 * <p>Note that the application still requires an XML parser that
 * implements SAX1.</p>
 *
 * @deprecated This class works with the deprecated
 * {@link org.xml.sax.Parser Parser} interface.
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0r2pre3
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserFactory.java

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

// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
 * <p>This class wraps a SAX2 {@link org.xml.sax.XMLReader XMLReader}
 * and makes it act as a SAX1 {@link org.xml.sax.Parser Parser}. The XMLReader
 * must support a true value for the
 * http://xml.org/sax/features/namespace-prefixes property or parsing will fail
 * with a {@link org.xml.sax.SAXException SAXException}; if the XMLReader
 * supports a false value for the http://xml.org/sax/features/namespace-prefixes
 * property, that will also be used to improve efficiency.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser
 * @see org.xml.sax.XMLReader
 */

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

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/**
 * Receive notification of the logical content of a document.
 *
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 *
 * This is the main interface that most SAX applications implement: if the application needs to be informed of basic parsing events, it implements this interface and registers an instance with the SAX parser using the `setContentHandler` method. The parser uses the instance to report basic document-related events like the start and end of elements and character data.
 *
 * The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement and the corresponding endElement event.
 *
 * This interface is similar to the now-deprecated SAX 1.0 `DocumentHandler` interface, but it adds support for Namespaces and for reporting skipped entities (in non-validating XML processors).
 *
 * Implementors should note that there is also a Java class `ContentHandler` in the java.net package; that means that it's probably a bad idea to do
 *
 * In fact, "import ...*" is usually a sign of sloppy programming anyway, so the user should consider this a feature rather than a bug.
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
Found in path(s):
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  * SAX2 extension handler for lexical events.
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  * </blockquote>
  *
  * This is an optional extension handler for SAX2 to provide
  * lexical information about an XML document, such as comments
  * and CDATA section boundaries; XML readers are not required to
  * support this handler, and it is not part of the core SAX2
  * distribution.</p>
  *
  * The events in the lexical handler apply to the entire document,
  * not just to the document element, and all lexical handler events
  * must appear between the content handler's startDocument and
  * endDocument events.</p>
  *
  * To set the LexicalHandler for an XML reader, use the
  * [%link org.xml.sax.XMLReader#setProperty setProperty%] method
  * with the propertyName "http://xml.org/sax/properties/lexical-handler".
  * If the reader does not support lexical events, it will throw a
  * [%link org.xml.sax.SAXNotRecognizedException setProperty\#SAXNotRecognizedException%]
  * or a
  * [%link org.xml.sax.SAXNotSupportedException setProperty\#SAXNotSupportedException%]
  * when you attempt to register the handler.</p>
  *
  * @since 1.0
  * @author David Megginson,
  *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
  * @version 1.0
*/
1.152 servlet-api 4.0.1

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    */
"foo${expr0}bar${expr1}". The static

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* * number of expressions all contained in "${...}" markers. For instance
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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/framework/expression/spel/ast/AstUtils.java
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" 

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* " for expression starting at character " + prefixIndex + "
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case 'T':case 'Y':

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* case 'Y'
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case '[': case '(': case '{':

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// Chew on the expression text - relying on the rules
* case '\'
* case ""
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square brackets [], round brackets () and curly brackets {}.

Bracket is used to describe
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/
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/InternalParseException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/real/RealLiteral.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/Token.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/Literal.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ConstructorExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ExpressionState.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpModulus.java

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* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/impl/SLF4JLog.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
* /opt/cola/permits/197233950_1651094479.22/0/jcl-over-slf4j-1-7-25-sources-jar/org/apache/commons/logging/impl/NoOpLog.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LinkedTreeMap.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LinkedHashTreeMap.java

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

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/JavaVersion.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/Deserializer.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/$Gson$Preconditions.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonReader.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/UnsafeAllocator.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

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1.161 jetty-continuation 9.4.45.v20220203

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

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

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Oracle

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jettyschemas

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Assorted

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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar(io/netty/channel/epoll/EpollServerDomainSocketChannelConfig.java

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 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the { code: TCP_QUICKACK } option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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Found in path(s):
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
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//*[@opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
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jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-
jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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Eclipse

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

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

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

------

Oracle

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

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

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

------
Apache

The following artifacts are ASL2 licensed.

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

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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2.13.2
1.190.1 Available under license:
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1.191 activemq-client 5.16.4
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/GwtTransient.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingImmutableCollection.java
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 */

/*
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */

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 */
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's java.util.HashMap class.
 */

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 * the License.
 */
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
 * version.
 */

Found in path(s):
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jar/com/google/common/primitives/ImmutableLongArray.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedSetFauxOverrideShim.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ArrayTable.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
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 */
/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/IndexedImmutableSet.java
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jar/com/google/common/base/JdkPattern.java
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jar/com/google/common/base/CommonMatcher.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/Files.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Functions.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java
jar/com/google/common/hash/LongAddables.java
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jar/com/google/common/graph/ImmutableNetwork.java
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jar/com/google/common/graph/Graphs.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedSetMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Lists.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingObject.java
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jar/com/google/common/collect/AbstractIterator.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/Synchronized.java
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* /opt/cola/permits/110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/Iterators.java
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {code Comparable} to use {link ImmutableSortedMap#of(Comparable, Object)}</b>
 */

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/jar/com/google/common/primitives/UnsignedBytes.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/AbstractTable.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/MoreFiles.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ConfigurableMutableNetwork.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/EdgesConnecting.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/GraphConnections.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ConfigurableMutableValueGraph.java
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1.202 management-common-resources-v2

2.1.6

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2=DC_CONFIDENTIAL if (c < 0 || c > DC_CONFIDENTIAL) throw new
IllegalArgumentException("Constraint out of range"); * 2=DC_CONFIDENTIAL + (_dataConstraint ==
DC_UNSET ? "DC_UNSET" : (_dataConstraint == DC_NONE ? "NONE" : (_dataConstraint ==
DC_INTEGRAL ? "INTEGRAL" : "CONFIDENTIAL"))));

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  Metadata-Version: 2.1
  Name: CacheControl
  Version: 0.12.10
  Summary: httplib2 caching for requests
  Home-page: https://github.com/ionrock/cachecontrol
  Author: Eric Larson
  Author-email: eric@ionrock.org
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  Description: ..
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==============
CacheControl
==============

.. image:: https://img.shields.io/pypi/v/cachecontrol.svg
  :target: https://pypi.python.org/pypi/cachecontrol
  :alt: Latest Version
CacheControl is a port of the caching algorithms in httplib2 for use with requests session object.

It was written because httplib2’s better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.

Quickstart
==========

```python
import requests
from cachecontrol import CacheControl

dos = requests.session()
cached_sess = CacheControl(sess)

response = cached_sess.get('http://google.com')
```

If the URL contains any caching based headers, it will cache the result in a simple dictionary.

For more info, check out the docs_

.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
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1.207 python-requests 2.23.0

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1.213 jaxen 1.2.0

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* /opt/cola/permits/1195818461_1629833729.3/0/jul-to-slf4j-1-7-32-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

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1.222 cxf-rt-frontend-jaxrs 3.2.5

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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/property/RemotePropertySet.java
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jar/org/codehaus/cargo/container/spi/AbstractContainer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/spi/deployer/DeployerWatchdog.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/spi/configuration/AbstractExistingLocalConfiguration.java
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jar/org/codehaus/cargo/container/property/ResourceConverter.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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jar/org/codehaus/cargo/container/spi/deployer/AbstractCopyingInstalledLocalDeployer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/spi/deployer/AbstractLocalDeployer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/RunnableContainer.java
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jar/org/codehaus/cargo/container/deployer/Deployer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/configuration/ConfigurationType.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/configuration/ExistingLocalConfiguration.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/configuration/DeployableType.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/deployer/DeployableMonitorListener.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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  jar/org/codehaus/cargo/container/spi/configuration/AbstractStandaloneLocalConfiguration.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/deployable/SAR.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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  jar/org/codehaus/cargo/container/ContainerException.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/container Capability.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/property/JSR88PropertySet.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/AbstractListenerContainerParser.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/JmsResourceHolder.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/listener/endpoint/JmsActivationSpecConfig.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/listener/adapter/AbstractAdaptableMessageListener.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/annotation/JmsBootstrapConfiguration.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/support/converter/MarshallingMessageConverter.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/connection/SingleConnectionFactory.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/config/AbstractJmsListenerContainerFactory.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/config/JmsListenerContainerParser.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/listener/SubscriptionNameProvider.java
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jar/org/springframework/jms/listener/AbstractAdaptableMessageListener.java
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  jar/org/springframework/connection/SmartConnectionFactory.java
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  jar/org/springframework/jms/IllegalStateException.java
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  jar/org/springframework/jms/connection/SessionProxy.java
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  jar/org/springframework/jms/JmsSecurityException.java
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  jar/org/springframework/jms/InvalidSelectorException.java
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  jar/org/springframework/jms/support/destination/DestinationResolutionException.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/UncategorizedJmsException.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/JcaListenerContainerParser.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/support/converter/SmartMessageConverter.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/DefaultJcaListenerContainerFactory.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/CachedMessageConsumer.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/CachedMessageProducer.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
Found in path(s):
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/JmsListenerContainerFactory.java
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/DelegatingConnectionFactory.java
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  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/MessageListenerContainer.java
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/core/JmsMessagingTemplate.java
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/support/converter/MessageConverter.java
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/support/JmsHeaders.java
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/support/converter/MessageConversionException.java
  * /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/ChainedExceptionListener.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/LocallyExposedJmsResourceHolder.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/support/destination/DynamicDestinationResolver.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/adapter/ReplyFailureException.java
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1.232 asm 7.3.1

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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/ibatis/support/BlobByteArrayTypeHandler.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/ibatis/support/AbstractLobTypeHandler.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/OpenJpaDialect.java
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/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * <code>createEntityManager</code> call (may be <code>null</code>)
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/TopLinkJpaVendorAdapter.java

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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/HibernateQueryException.java
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That's all there is to it!

1.238 jinja2 2.11.2
1.238.1 Available under license:
No license file was found, but licenses were detected in source scan.

    import io
    import re

    from setuptools import find_packages
    from setuptools import setup

    with io.open("README.rst", "rt", encoding="utf8") as f:
        readme = f.read()

    with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
        version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

    setup(
        name="Jinja2",
        version=version,
        description="Jinja2: a templating engine",
        long_description=readme,
        long_description_content_type="text/x-rst",
        url="https://pymotw.com",
        author="Pauli Virtanen",
        author_email="pav@jkylhamaki.net",
        license="LGPL v3 or later",
        keywords="template	template engine",
        platforms="any",
        classifiers=[
            'Development Status :: 5 - Production/Stable',
            'Environment :: Web Environment',
            'Intended Audience :: Developers',
            'License :: OSI Approved :: GNU Library or Lesser General Public License (LGPL)',
            'Natural Language :: English',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Topic :: Software Development :: Libraries :: Python Modules',
        ],
        py_modules=['jinja2'],
    )
version=version,
url="https://palletsprojects.com/p/jinja/",
project_urls={
    "Documentation": "https://jinja.palletsprojects.com/",
    "Code": "https://github.com/pallets/jinja",
    "Issue tracker": "https://github.com/pallets/jinja/issues",
},
license="BSD-3-Clause",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Environment :: Web Environment",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
    "Programming Language :: Python :: 3.8",
    "Programming Language :: Python :: Implementation :: CPython",
    "Programming Language :: Python :: Implementation :: PyPy",
    "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

======

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Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- Ⅱ8N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

   $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

   {% extends "base.html" %}
   {% block title %}Members{% endblock %}
   {% block content %}
   <ul>
   {% for user in users %}
   <li><a href="{{ user.url }}">{{ user.username }}</a></li>
   {% endfor %}
   </ul>
Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO
* /opt/ cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

1.239 cxf 3.2.5
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 */

package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to authorization handlers
 * @see OAuthAuthorizationData
 */

public class Permission {
private String permission;
private String description;
private boolean isDefault;

public Permission() {
}

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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import java.io.InputStream;

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 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

   int copyFrom(InputStream in) throws IOException;
}

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1.246 jandex 2.4.2.Final

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1.247 jackson 2.12.6

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1.248 sqlite 3.32.1-r0

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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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

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

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

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

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

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

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

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

---
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanyc@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture
* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
  * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance
* Andy Caldwell <andy.m.caldwell@googlegmail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moinl8@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool_make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

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

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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/SerializationElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/SerializationKeySnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/BatchAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/ElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/KeySnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/DeleteAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/transactions/ClusteredTransactionID.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/DeleteAllAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/transactions/ClusteredTransactionIDFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/DeleteAllAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/transactions/ClusteredTransactionIDFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/transactions/ReadCommittedClusteredSoftLockFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/IdentityElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/KeyBasedOperationWrapper.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/IdentityKeySnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/OperationsFilterWrapper.java

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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/transaction/ClusteredSoftLockID.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/store/ValueModeHandlerSerialization.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/event/ClusterListenerAdapter.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/store/ElementSerializationStrategy.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/coherence/IncoherentNodesSet.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/store/ThreadContextAwareClassLoader.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/store/ValueModeHandlerFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/store/backend/BackendStore.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/event/TerracottaNodeImpl.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/store/servermap/ServerMapLocalStoreEhcacheListenerAdapter.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/WriteBehindAsyncConfig.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/AsyncWriteBehind.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/transaction/ReadCommittedClusteredSoftLock.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/SingleAsyncOperation.java

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/**
 * An implementation of [ItemProcessor] that delegates the processing to a [CacheWriter] instance
 * <p/>
 * Instances of this class will be used when items are processed one by one. Note that [CacheWriter]
 * instances will not be shared across a Terracotta DSO cluster and are intended to be local on a node. They are tied to
 * an individual write behind queue. You're thus free to use local resources in an [CacheWriter], like
 * database connections or file handles.
 * @author Geert Bevin
 * @version $Id: CacheWriterWrapper.java 29067 2011-08-02 10:07:00Z alexsnaps $
 */

1.255 xstream 1.4.15

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/**
 * A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
 * {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
 * SAX event flow from the XStream serialization of a list of list of Java objects.
 * <p>
 * As a
 * custom SAX parser, this class ignores the arguments of the two standard parse methods
 * (<@link parse(java.lang.String)>)
 * and (<@link parse(org.xml.sax.InputSource)>)) but relies on a proprietary SAX property
 * (<@link #SOURCE_OBJECT_LIST_PROPERTY> to define the list of objects to serialize.
 * </p>
 * <p>
 * Configuration of this SAX parser is achieved through the standard
 * (<@link #setProperty SAX property mechanism>). While specific setter methods require direct
 * access to the parser instance, SAX properties support configuration settings to be propagated
 * through a chain of (<@link org.xml.sax.XMLFilter filters}) down to the underlying parser
 */
This mechanism shall be used to configure the
* [@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
* [@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].

@author Laurent Bihanic

Sets the value of a property.

The property name is any fully-qualified URI. It is
possible for an XMLReader to recognize a property name but
unable to set its value.

XMLReaders are not required to recognize setting any
specific property names, though a core set is provided with
SAX2.

Some property values may be immutable or mutable only
in specific contexts, such as before, during, or after
a parse.

This method is also the standard mechanism for setting
extended handlers.

@throws SAXNotRecognizedException when the XMLReader does not
recognize the property name.
@throws SAXNotSupportedException when the XMLReader recognizes
the property name but cannot set
the requested value.
@see #getProperty

** Sets the value of a property.

** Parses an XML document from a system identifier (URI).

This method is a shortcut for the common case of reading a
document from a system identifier. It is the exact
equivalent of the following:
parse(new InputSource(systemId));

If the system identifier is a URL, it must be fully resolved
by the application before it is passed to the parser.

Note: As a custom SAX parser, this class ignores the systemId argument of this method
and relies on the proprietary SAX property
{@link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of
objects to serialize.

@param systemId the system identifier (URI).
@throws SAXException Any SAX exception, possibly wrapping
another exception.
@see #parse(org.xml.sax.InputSource)

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jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java
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jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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  jar/com/thoughtworks/xstream/mapper/DefaultMapper.java
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  jar/com/thoughtworks/xstream/io/WriterWrapper.java
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  jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java
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jar/com/thoughtworks/xstream/XStreamer.java
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jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
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  jar/com/thoughtworks/xstream/persistence/XmlMap.java
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  jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java
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  jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
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javadoc/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
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javadoc/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java
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jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/IntConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/JVM.java
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*  /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/MarshallingStrategy.java
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*  /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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*  /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources.jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources.jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources.jar/com/thoughtworks/xstream/io/path/PathTracker.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/security/NoTypePermission.java
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jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
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jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
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jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java
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  jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java
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  jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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  jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources.jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources.jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.15
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.15 Sources
Eclipse-SourceBundle: xstream;version=1.4.15
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-12-12T23:22:23Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4

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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java
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jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/JDomReader.java
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Found in path(s):
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jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java

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jar/com/thoughtworks/xstream/converters/nums/EnumConverter.java
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ar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
ar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
ar/com/thoughtworks/xstream/security/ProxyTypePermission.java

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ar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
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jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.264 classgraph 4.8.83

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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/IPPacket.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java

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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ipfilter/package-info.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources.jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

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  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-
  jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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  jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-
  jar/io/netty/handler/ssl/PemX509Certificate.java
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  jar/io/netty/handler/flush/package-info.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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1.272 ca-certificates 20211220-r0

1.272.1 Available under license :

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

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Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-tgz/src/ca-certificates-20211220/mk-ca-bundle.pl
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/mk-ca-bundle.pl
No license file was found, but licenses were detected in source scan.

#
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# file, You can obtain one at http://mozilla.org/MPL/2.0/.

#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.

# Object definitions:

# Certificates

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
<td>CKO_CERTIFICATE</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE</td>
<td>CK_CERTIFICATE_TYPE</td>
<td>CKC_X_509</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>byte array</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL</td>
<td>ASCII7</td>
<td>(unused here)</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
</tbody>
</table>

# Trust

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
<td>CKO_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>DER+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_CERT_HASH</td>
<td>binary+base64</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_EXPIRES</td>
<td>CK_DATE</td>
<td>(not used here)</td>
</tr>
<tr>
<td>CKA_TRUST_DIGITAL_SIGNATURE</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_NON_REPUDICATION</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_KEY_ENCIIPHERMENT</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_DATA_ENCIIPHERMENT</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_KEY_AGREEMENT</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_KEY_CERT_SIGN</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_CRL_SIGN</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_SERVER_AUTH</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_CLIENT_AUTH</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_CODE_SIGNING</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_EMAIL_PROTECTION</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_IPSEC_END_SYSTEM</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_IPSEC_TUNNEL</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
<tr>
<td>CKA_TRUST_IPSEC_USER</td>
<td>CK_TRUST</td>
<td>(varies)</td>
</tr>
</tbody>
</table>
# CKA_TRUST_TIME_STAMPING  CK_TRUST  (varies)
# CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  (varies)
# (other trust attributes can be defined)
#
#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\0103\101\061\033\060\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\0103\101 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\0103\101\061\033\060\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\0103\101
# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\212\332\136\164\135\156\020\156\166\055\163\141\020\060\016\006\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\126\135\067\237\261\207\051\212
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\212\332\136\164\135\156\020\156\166\055\163\141\020\060\016\006\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\212\332\136\164\135\156\020\156\166\055\163\141\020\060\016\006\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003\125\004\013\023\007\122\157\157\164\040\010\010\061\033\060\003
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\001\012\332\013\032\023\024

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END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END

# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US  
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US  
# Not Valid Before: Fri Oct 01 00:00:00 1999  
# Not Valid After : Wed Jul 16 23:59:59 2036  
"Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
END

CA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\135\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
END

CA_CERT_MD5_HASH MULTILINE_OCTAL
\370\276\304\143\042\231\250\016\064\213\270\035\036\112\053\366
END

CA_ISSUER_MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\212\5123
\061\027\060\025\060\003\125\004\012\023\016\026\145\162\151\123
\151\147\156\054\040\111\156\143\035\060\011\037\060\035\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003

\356\005\074\244\063\077\013\071\254\160\170\163\113\231\053\337
\060\030\124\260\250\073\125\241\376\026\050\031\51\02\275\164\156
\200\333\047\104\247\136\110\135\324\033\220\230\015\036\102\222
\261\000\054\004\320\164\243\002\005\042\143\143\155\203\265\373
\301\155\142\153\151\165\375\135\160\101\127\165\277\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110
\260\177\373\066\045\332\225\320\361\044\024\027\335\030\200\153
\106\043\071\124\365\216\142\011\004\035\222\220\246\233\346\045
\342\102\105\252\270\220\025\276\010\217\251\013\102\030\224\317
\162\071\341\261\103\340\050\317\267\347\132\154\023\153\111\263
\377\343\030\174\211\123\063\135\254\063\327\247\371\332\072\125
\311\130\020\371\252\357\132\266\317\113\113\337\052
END

CKA_NSS_Mozilla_CA_POLICY CBBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\060\060\060\060\060\060\060\060\060\060\060\060\060
END

# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

CA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CA_CERT_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
END

CA_CERT_MD5_HASH MULTILINE_OCTAL
\370\276\304\143\042\231\250\016\064\213\270\035\036\112\053\366
END

CA_ISSUER_MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\212\5123
\061\027\060\025\060\003\125\004\012\023\016\026\145\162\151\123
\151\147\156\054\040\111\156\143\035\060\011\037\060\035\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003

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\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\033\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\120\162\151\155\141\162\171
\164\151\156\154\171\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\120
\133\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust.net Premium 2048 Secure Server CA"
#
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited.OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited.OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\201\024\060\022\060\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\154\145\164\061\100\060\076\060\003\125
\004\013\024\067\167\167\167\156\156\156\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\056\050\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\163\066\061\006\003\125\004\033\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

Open Source Used In Crosswork Common EMS Services 4.0.0 2057
# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid After: Mon May 12 23:59:00 2025

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\010\006\003\125\004\006\023\002\111\110\050\061
\022\060\020\000\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\040\060\040\000\003\125\004
\003\023\031\110\124\154\164\151\155\157\162\145\040\013\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\010\006\003\125\004\006\023\002\111\110\050\061
\022\060\020\000\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\110\124\154\164\151\155\157\162\145\040\013\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\0271
END
CKA_VALUE MULTILINE_OCTAL
\060\120\003\167\060\020\002\137\240\003\002\001\002\002\004\002
\000\000\271\106\001\15\000\011\052\206\110\206\367\015\001\100\005
\005\000\006\013\060\011\010\006\003\125\004\006\023\020\211
\105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164
\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012
\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003
\125\004\003\023\031\110\141\154\164\151\155\157\162\145\040\013
\171\142\145\162\124\162\165\163\164\040\122\157\157\164\060\036
\027\015\060\060\060\065\061\062\061\070\064\066\060\060\013\202\027
\015\062\065\060\065\060\016\062\062\063\065\071\060\060\132\013
\061\013\060\011\006\003\125\004\006\023\002\111\110\050\061\022\060
\020\000\003\125\004\012\023\011\102\141\154\164\151\155\157\162
\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145
\162\124\162\165\163\164\061\042\060\040\006\003\125\004\003\023
\031\102\141\154\164\151\155\157\162\145\040\013\171\142\145\162
\124\162\165\163\164\040\122\157\157\164\060\202\001\042\060\001
\006\011\052\206\110\206\367\015\001\100\005\000\003\202\001
\017\000\060\020\001\012\002\020\001\000\001\243\004\273\042\253
# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Not Valid Before: Fri May 12 18:46:00 2000

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
<table>
<thead>
<tr>
<th>CKA_CERTIFICATE_TYPE</th>
<th>CK_CERTIFICATE_TYPE</th>
<th>CKC_X_509</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8 &quot;0&quot;</td>
<td></td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>


\140\305\034\360\042\104\215\161\107\254\310\032\311\351\233\322
\001\40\023\377\160\176\137\021\115\111\033\263\025\122\173\311
\124\332\277\235\225\257\153\232\330\236\351\361\134\103\215\342
\021\104\072\227\257\275\203\102\216\122\213\252\273\247\051\317
\365\144\034\012\115\321\274\252\254\237\052\320\377\177\177\332
\175\352\261\135\5\064\043\301\204\332\064\322\133\170\203\126\354
\234\066\303\046\342\201\366\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\122\101\340\122\252\273\247\051\165\357\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\235\020\013\023\376
\036\177\132\264\074

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After: Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:54:07:1F:1D:3E:4

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\002\332\234\067\324\115\365\324
\147\111\122\371

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\355\076\000\301\075\207\222\037\035\077\344

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\103\130\131\134\004\006\023\002\125\123
\061\102\126\060\024\006\003\125\004\012\023\015\105\156\164\162\161\165
\163\164\054\040\111\156\145\056\061\107\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\161\163\164\056\156
\145\164\057\103\120\130\040\151\156\143\157\162\160
\157\162\141\146\145\144\040\142\171\104\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\033\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040

Open Source Used in Crosswork Common EMS Services 4.0.0 2066


```
# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\003\014\060\202\001\006\003\012\023\022\125\156\151\172\145\156\140\001\015\011\052\206\110\206\367\015\001\001\005\000
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\006\060\013\030\000\011\006\003\012\023\022\125\156\151\172\145\156\140\001\015\011\052\206\110\206\367\015\001\001\005\000
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\010\053\120\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

Open Source Used In Crosswork Common EMS Services 4.0.0  2067
# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027

## Certificate "Comodo AAA Services root"

# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"

CKA_CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
`\060\173\061\013\060\011\006\003\0125\004\000\023\002\0107\012\060\011
\033\060\031\006\003\0125\004\010\014\022\017\0162\045\0141\064\0145
\0162\040\0114\151\156\143\150\145\163\164\145\0162\061\020\060\016
\006\003\0125\004\000\07\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\0125\004\012\014\021\103\157\155\157\144\157\040
\013\010\040\014\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\011\010\040\103\145\0162\0164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
`CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
`\060\173\061\013\060\011\006\003\0125\004\006\023\002\0107\012\060\011
\033\060\031\006\003\0125\004\010\014\022\017\0162\045\0141\064\0145
\162\040\0114\151\141\156\143\150\145\163\164\145\0162\061\020\060\016
\006\003\0125\004\000\07\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\0125\004\012\014\021\103\157\155\157\144\157\040
\013\010\040\014\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\011\010\040\103\145\0162\0164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
`\060\027\015\060\064\060\061\060\060\060\060\060\060\132\027\015
\062\070\061\062\063\061\062\065\071\065\071\132\060\173\061\013
\060\011\006\003\0125\004\006\023\002\0107\012\060\011
\033\060\031\006\003\0125\004\010\014\022\017\0162\045\0141\064\0145
\162\040\0114\151\156\143\150\145\163\164\145\0162\061\020\060\016
\006\003\0125\004\000\07\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\0125\004\012\014\021\103\157\155\157\144\157\040
\013\010\040\014\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\011\010\040\103\145\0162\0164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

Open Source Used In Crosswork Common EMS Services 4.0.0 2070
# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After: Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"

CKA_ISSUER_MULTILINE_OCTAL
\060173\0301\0401 \0311 \0321\0351\0361\0371\0411 \0421 \0431 \0441 \0451 \0461 \0481 \0491 \0531 \0541 \0551 \0561 \0571 \0611 \0621 \0631 \0641 \0651 \0681 \0691 \0711 \0721 \0731 \0741 \0751 \0761 \0771 \0801 \0811 \0821 \0831 \0841 \0851 \0861 \0871 \0881 \0891 \0911 \0921 \0931 \0941 \0951 \0961 \0971 \0981 \0991 \1001 \1011 \1021 \1031 \1041 \1051 \1061 \1071 \1081 \1091 \1101 \1111 \1121 \1131 \1141 \1151 \1161 \1171 \1181 \1191 \1201 \1211 \1221 \1231 \1241 \1251 \1261 \1271

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601050611013060011006000312500040060023002102115061
031060027006000312500040120230201211651571126141144
15116304011415115515116414514406103306000310060003
125004000302302212116515711261411441511630401221157
157164040103101040062 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
0601050611013060011006000312500040060023002102115061
031060027006000312500040120230201211651571126141144
15116304011415115515116414514406103306000310060003
125004000302302212116515711261411441511630401221157
157164040103101040062 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020020050011 END
CKA_VALUE MULTILINE_OCTAL
060105062706002002003123724000031002001000020002002005
0111060015000601105220611102061367015001001005005000
0601050611013060011006000312500040060023002102115061
031060027006000012500040120230201211651571126141144
15116304011415115515116414514406103306000310060003
125004000302302212116515711261411441511630401221157
157164040103101040062 END
0640610706020607060600132027015063061061061062064
06110706020630630631320601050610130600110060003125
00400602300210211506103106002700600031250004012023
0201211651571126141144151163040114151155151164145
144061033060003100600031250040030230221211651571126
1411415111630401221157164040103101040062060202
002004206001500600110522061102061367015001001001005
00000312020020170000600202002012020202020010000232
\203\370\215\374\007\270\332\137\115\056\147\262\204\375\331\104 \374\167\120\201\346\174\264\311\015\013\162\123\370\166\007\000 \101\107\226\014\373\340\202\046\223\125\214\376\042\037\140\145 \174\137\347\046\263\367\062\220\320\123\240\067\161\125\366\222 \041\170\367\225\171\372\370\055\046\207\146\126\060\167\246\067 \170\063\220\013\305\260\077\114\126\321\152\261\135\070\176\112 \131\143\312\125\242\126\325\247\057\274\126\037\317\07\130\134 \373\012\250\025\054\175\115\172\143\306\154\227\104\074\322\157 \303\12\027\012\370\220\322\127\242\031\12\124\50\055\227\101\132 \007\117\251\120\332\220\215\224\106\341\076\360\224\375\020\000 \070\365\073\350\100\341\246\156\126\032\040\314\157\130\215\355 \056\105\217\326\351\223\077\347\261\054\337\072\326\042\214\334 \120\427\042\157\320\370\034\060\071\135\100\042\100\074\303\272\353 \125\172\155\200\231\044\365\154\001\037\337\307\227\260\224\133\353 \375\322\157\151\361\167\150\015\065\144\043\254\270\125\241\003\321 \115\102\031\334\370\165\131\126\243\367\125\11\171\370\257\016 \271\102\214\074\267\152\355\064\320\266\046\142\070\032\207\014 \370\357\350\056\323\220\177\007\221\052\035\326\176\134\205\203 \231\126\070\010\077\351\136\371\065\007\344\31\1142\156\127\177 \247\120\225\367\272\310\233\346\216\242\201\030\326\164\267\171 \141\163\037\040\344\217\202\134\135\240\033\351\330\110\275\031 \124\202\102\403\115\156\126\262\206\033\150\076\111\067\032\210\267\135 \226\136\234\037\355\047\142\010\342\221\031\134\322\361\041\335 \272\027\102\202\222\161\201\123\061\251\123\367\175\142\277\162 \341\232\233\053\142\212\046\132\011\070\320\301\163\327\015\200\0026 \264\170\245\072\207\142\15\121\245\325\106\227\362\054\020\271 \274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332 \361\134\261\135\373\372\212\171\124\052\013\045\301\046\031\130\122 \020\005\145\325\202\020\352\032\061\135\056 END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2, O=QuoVadis Limited, C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2, O=QuoVadis Limited, C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After: Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

Open Source Used In Crosswork Common EMS Services 4.0.0 2075

# Certificate "QuoVadis Root CA 3"

# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\x31\x20\x072\x373\x317\x022\x100\x066\x113\x048\x262\x026\x040\x210\x200\x110\x071
\x031\x223\x174\x367
END

CKA_ISSUER MULTILINE_OCTAL
\x0601\x0506\x101\x0360\x01\x11006\x003\x125\x004\x006\x023\x002\x102\x115\x061
\x031\x060\x027\x006\x003\x125\x004\x012\x023\x020\x121\x165\x157\x126\x141\x144
\x151\x163\x040\x141\x151\x155\x151\x164\x145\x144\x061\x033\x060\x003\x1006\x003
\x125\x004\x003\x023\x022\x121\x165\x157\x126\x141\x144\x151\x163\x040\x122\x157
\x157\x164\x040\x103\x101\x040\x062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\x002\x002\x005\x011
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```
\000\224\313\042\040\276\224\247\131\265\202\152\276\231\171\172
\251\362\112\044\122\367\164\375\272\116\346\250\035\002\156\261
\015\200\104\031\256\323\043\067\137\273\205\174\053\222\056\350
\176\245\213\355\231\341\277\047\157\055\135\252\217\207\376\012
\335\113\374\216\365\046\344\156\160\102\156\063\354\061\236\173
\223\301\134\311\151\032\075\300\153\116\042\155\356\253\130\115
\306\320\101\301\053\352\117\022\207\136\353\105\330\154\365\230
\002\233\240\303\312\25\212\006\231\103\124\240\167\321\060\236\254
\314\165\356\203\365\260\142\071\131\154\127\342\114\322\221\013
\016\165\050\033\332\323\277\375\032\103\361\12\167\373\073\217\141
\270\151\050\026\102\040\136\160\052\034\041\330\217\341\275\043
\133\055\164\010\222\331\143\031\015\163\335\151\127\414\212\072\274
\340\164\053\262\353\175\276\101\033\265\300\106\305\24\104\231
\137\116\301\050\222\336\030\272\325\052\050\273\021\213\027\222
\230\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067
\036\073\151\066\353\251\236\141\035\217\062\332\216\014\326\164
\076\173\011\044\332\001\167\073\040\073\315\006\241\231\365\312
\341\045\141\063\326\131\033\342\156\327\067\127\266\015\251\022
\332
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\037\072\055
\20\216\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\051\010\006\001\010\006\003\125\004\006\023\002\102\115\061
\031\060\027\000\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
```
# Certificate "Security Communication Root CA"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After: Sat Sep 30 04:20:49 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKACERTIFICATE_TYPE CK_Certificate_Type CKC_X_509

END
# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217\135\254\262\367
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END

CKA_ISSUER MULTILINE_OCTAL
\060\120\006\013\060\011\006\003\125\004\012\023\017\123\105\033\117\115\040
\124\162\165\163\164\056\156\145\164\061\104\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Camerfirma Chambers of Commerce Root"

Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU

Serial Number: 0 (0x0)

Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU

Not Valid Before: Tue Sep 30 16:13:43 2003

Not Valid After: Wed Sep 30 16:13:44 2037


FCA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

FCA_TOKEN CK_BBOOL CK_TRUE

FCA_PRIVATE CK_BBOOL CK_FALSE

FCA_MODIFIABLE CK_BBOOL CK_FALSE

FCA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

FCA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

FCA_SUBJECT MULTILINE_OCTAL

FCA_ISSUER MULTILINE_OCTAL

FCA_SERIAL_NUMBER MULTILINE_OCTAL

FCA_VALUE MULTILINE_OCTAL

FCA_ID UTF8 "0"

FCA_ISSUER MULTILINE_OCTAL

FCA_SERIAL_NUMBER MULTILINE_OCTAL

FCA_VALUE MULTILINE_OCTAL
\157\157\164\100\143\150\141\155\142\145\162\163\151\147\156\056
\157\151\147\146\010\130\006\003\125\035\040\004\121\060\011\067\060\015
\006\013\053\006\001\004\001\020\070\056\012\003\001\060\076\060
\074\000\010\053\006\001\000\050\005\007\002\000\026\060\015\016\41\164
\160\072\057\143\141\160\163\056\143\150\141\155\142\145\162\163
\151\147\156\056\157\151\147\145\075\137\160\163\057\143\150\141\155
\142\145\162\163\162\157\157\164\056\150\164\155\154\060\015\000
\011\052\020\061\010\026\067\015\001\001\000\050\005\000\003\032\020\000
\000\014\101\012\227\032\020\063\000\042\174\237\373\220\036\032\321
\003\261\135\170\233\371\041\137\004\234\332\311\245\215\047\154\226
\207\221\276\010\220\001\116\223\347\036\175\137\066\211\130\135
\124\71\000\110\075\254\111\110\053\334\056\215\060\150\026\211\127
\137\330\057\314\227\013\337\077\167\173\106\175\072\022\118\016
\226\217\074\005\012\157\322\224\050\035\155\014\300\056\210\042
\325\330\137\035\023\037\360\110\032\327\227\005\247\317\307\017\023
\073\074\064\310\200\117\324\024\273\317\345\015\120\037\372\263\354
\102\137\251\135\155\310\364\165\317\173\301\162\046\261\000\103
\134\050\375\172\116\264\001\130\055\012\271\211\347\074\252\005\331
\210\351\007\106\101\136\357\101\201\256\130\037\203\242\256\312
\327\167\037\347\000\074\235\157\216\344\062\011\035\115\170\064
\170\064\074\224\233\046\355\117\161\036\031\172\275\040\042\110
\132\376\113\175\003\267\347\130\276\036\062\116\164\036\150\335
\250\150\133\306\076\356\142\175\331\200\350\012\165\172\267\356
\264\145\232\041\220\340\252\320\230\274\070\265\163\074\213\370
\334
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\061\060\063\060\060\060\060\060\060\060\132
END

# Trust for Certificate "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH_MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH_MULTILINE_OCTAL
\260\001\135\060\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER_MULTILINE_OCTAL
\060\177\061\13\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\104\103\111\106\040\101
\070\062\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\165\163\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\206
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\013\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After: Wed Sep 30 16:14:18 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\175\061\13\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\104\103\111\106\040\101
\070\062\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\165\163\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\206
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\013\157\155\155\145\162\143\145\040\122\157\157
\164
# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\172\001\207\162\212\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\067\064\063\062\067\061\043\060\041\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\012\005\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\151\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\012\005\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Open Source Used In Crosswork Common EMS Services 4.0.0  2089
# Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US

# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After: Mon Jan 01 05:37:19 2035

# Fingerprint (MD5): A1:0B:44:43:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\156\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\045
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\156\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\045
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\335\030\352\325\234\115\325\227\357\165\217
\240\255

END

CKA_VALUE MULTILINE_OCTAL
# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D7:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\101\024\243\241\204\105\327\067\352\137\115\166\022\066\273\037\327\272\241\010\004\106\040\243\054\155

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321

CKA_ISSUER MULTILINE_OCTAL
\264\003\045\274
END
# Certificate "Go Daddy Class 2 CA"

# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." , C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." , C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601430600010101020101110200030112500400060230021250123061
041006000301125004001202300301124150040107115704010410141141144171040107116215716516005404001111156
143050506016016050506005700600301125004013023005010711570401041411441441710401031541411631631631630400620401031145
162164151014015114314116415115715604010111651641150
157116215111641171

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
0601430600010103000002010000000312500400060230021250123061
041006000301125004001202300301124150040107115704010410141141144171040107116215716516005404001111156
143050506016016050506005700600301125004013023005010711570401041411441441710401031541411631631631630400620401031145
162164151014015114314116415115715604010111651641150
157116215111641171
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.".,C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.".,C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\024\322\304\260\322\221\324\140\021\161\263\141\131\075\021\376\335\250\152\324\241\147\244\150\060\143\061\013\060\011\006\003\125\004\062\23\023\021\125\23\061\041\060\037\006\003\125\004\022\03\060\020\107\157\040\104\141\144\171\040\017\162\157\165\160\054\040\111\156\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040\104\141\144\171\040\103\154\141\163\160\040\062\040\010\131\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\020\001\000\000\062\113\136\262\312\076\221\374\022\306\241\007\214\216\167\240\063\024\134\220\036\030\367\010\246\075\012\031\137\120\200\021\156\151\134\226\027\060\377\064\221\143\162\070\356\314\034\001\243\035\224\050\244\061\366\172\304\124\327\366\345\061\130\003\242\314\161\142\333\224\015\163\265\277\105\311\044\265\325\202\002\255\043\171\151\121\257\026\115\316\317\143\120\063\94\335\030\042\210\252\235\213\101\156\203\311\040\345\211\236\315\073\322\160\367\176\231\046\040\024\124\045\253\156\163\205\346\233\041\235\012\154\202\016\250\370\032\014\372\020\036\154\226\357\207\015\304\017\141\213\255\356\203\053\225\370\216\222\204\162\071\153\304\352\203\355\203\315\227\156\010\274\353\116\046\266\163\053\344\323\366\143\376\046\161\342\141\021\164\112\377\127\032\207\017\165\100\056\317\121\151\027\240\002\022\141\225\329\321\100\262\202\114\356\304\254\020\103\246\245\236\012\325\225\142\232\015\317\210\202\305\062\014\344\053\237\105\346\015\237\050\243\26\271\105\021\322\127\255\067\017\257\035\177\333\275\237
# Certificate "Starfield Class 2 CA"

# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034

# Certificate "Starfield Class 2 CA"

# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
END

# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTCK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
# Certificate "DigiCert Assured ID Root CA"

# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145\154\144\040\111\156\143\013\060\027\006\003\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040\062\040\031\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END
# Trust for Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fc:8e:56:0f:fb:03:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
# Certificate "DigiCert Global Root CA"
# 
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

END
# Trust for Certificate "DigiCert Global Root CA"

# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031

CKA_CLASS CKO_OBJECT_CLASS
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CLASS CKO_NSS_TRUST
# Certificate "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE


END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212
END

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\100\06\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\153\060\051\100\063\023\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\100\171\362\256\106
\045\167
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BOOL CK_FALSE

#
# Certificate "SwissSign Platinum CA - G2"
#
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After: Sat Oct 25 08:36:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BOOL CK_TRUE
CKA_PRIVATE CK_BOOL CK_FALSE
CKA_MODIFIABLE CK_BOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\011\100\06\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023
\032\123\167\151\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\100\06\003\125\004\006\023\002\103\110\061
Open Source Used in Crosswork Common EMS Services 4.0.0

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202010116262000014701400031351117
END

CKA_VALUE MULTILINE_OCTAL
0602020005301060202003325124000300200102002010116
2620000147014000313511176001150060111030202006110206367
015001001005005000060111110610306011106000311250004
00602300021033110610250600230060031125004012023014
1231671511631631231511471560401011070610430600041
0060031250040030230321231671511631631231511471516
0401201541141164115115615504010310140055040107
0620600036027015060606610600620650600700636060060
060103207015063606610600620650600700636060060
13206011110611030601110000311250040060230002103110
061025060012030060031125004012023014123167151163163
1231511471560401011070610430600411060063125004003
0230321231671511631631231511471560401012023014123167151163163
1231511471560401011070610430600411060063125004003
0230321231671511631631231511471560401012023014123167151163163
1231511471560401011070610430600411060063125004003
0230321231671511631631231511471560401012023014123167151163163
1231511471560401011070610430600411060063125004003
0230321231671511631631231511471560401012023014123167151163163
1231511471560401011070610430600411060063125004003
0230321231671511631631231511471560401012023014123167151163163
1231511471560401011070610430600411060063125004003
Open Source Used in Crosswork Common EMS Services 4.0.0  2111

# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

cka_nss_mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE

cka_cert_sha1_hash MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
end

cka_cert_md5_hash MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
end

cka_issuer MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
end

cka_serial_number MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
end

cka_server_trust auth CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_step_up_approved CK_BBOOL CK_FALSE

# Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After: Sat Oct 25 08:30:35 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\011\107\061\037\060\035\006\003\125\004\003\023
\151\147\156\040\101\010\07\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\101\010\07\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\00\0273\100\034\103\365\136\117\260

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\272\060\020\003\242\240\003\002\001\002\002\011\000
\273\100\034\103\365\136\117\260\060\015\006\01\105\206\110\206
\367\15\001\001\005\005\000\006\105\061\10\106\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036
\027\015\016\060\060\160\060\062\065\060\070\063\060\063\065\132\027
\015\063\060\061\060\062\065\060\070\063\060\063\065\132\060\105
\061\103\060\111\006\003\125\004\006\023\002\103\110\061\025\060
\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147
\156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123
\167\151\163\163\123\151\147\156\040\107\157\154\144\040\103\101
\040\055\040\107\062\060\020\002\042\060\015\006\011\052\206\110
\206\367\015\001\001\005\000\003\202\002\017\000\060\202\002
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0 2114
# Certificate "SwissSign Silver CA - G2"

# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"

# Certificate "SwissSign Silver CA - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END

CKA_ISSUER MULTILINE_OCTAL
\060\015\060\013\060\011\006\003\125\004\006\023\002\013\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\011\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

# Certificate "SecureTrust CA"
# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:0f:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\125\352\055\251\124\321
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Secure Global CA"
#
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\274\060\022\002\244\240\003\002\001\002\002\020\007
\126\042\224\350\324\212\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\015\001\000\050\000\000\060\112
\061\101\036\001\11\006\003\125\004\006\023\002\125\123\061\104\000\060
\036\006\003\125\004\012\023\027\123\145\131\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\140\010\115\141\154\157\142\141\154\040\103\101\060\036\027\105\150\066
\061\061\060\067\061\071\064\062\062\070\132\027\105\062\071\061
\062\063\061\061\071\065\062\060\066\132\060\112\061\103\060\011
\006\006\125\125\004\006\023\002\125\123\061\104\060\060\060\060\036\003\125
\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040
\103\157\162\160\157\162\141\164\151\157\156\061\103\106\027\006
\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157
\142\141\154\040\103\101\060\020\001\042\060\015\006\011\052\206
\110\026\036\7\150\011\001\000\050\000\000\03\020\001\017\000\000\060\202
\001\012\022\002\001\001\000\257\065\056\330\254\154\125\151\006
\161\134\5\023\150\044\263\117\330\314\041\107\370\036\114\000\070\211
\211\003\351\279\352\136\106\123\011\133\134\134\365\132\350\367\105
\052\020\353\061\114\132\270\051\063\114\163\037\174\012\067\176\017
\272\062\230\341\035\227\257\217\037\034\131\010\070\226\363\333\032
\347\121\355\150\036\320\156\244\174\044\321\256\102\310\226\120

Open Source Used In Crosswork Common EMS Services 4.0.0 2122
```
\143\056\340\376\165\376\230\247\137\11\056\225\343\071\063\144
\216\036\244\137\220\322\147\074\262\331\376\101\271\125\247\011
\216\162\005\036\213\335\104\020\52\025\102\320\111\130\003\35\140\360
\321\027\054\225\353\366\245\301\122\243\305\302\224\010\140\0015
\140\004\020\226\161\171\126\026\064\346\251\126\372\045\105\071\1310
\036\145\373\123\252\236\112\233\342\123\200\75\245\206\032\014
\065\063\372\113\245\004\060\250\034\061\200\357\252\030\153\302
\173\327\332\331\367\103\040\325\365\275\152\063\055\201\004\373
\260\134\324\234\243\143\035\343\251\110\216\51\361\173\324\167
\135\70\1\02\273\311\01\030\033\022\231\111\057\210\113\137\5120
\142\321\163\347\217\172\103\002\003\001\000\010\123\021\235\060
\201\123\060\123\030\060\11\053\006\010\004\010\120\267\024\002\004
\006\036\004\000\103\000\101\060\013\006\003\125\035\107\004\004
\003\002\001\102\060\060\017\006\000\012\053\035\203\100\110\177\004\005
\006\000\010\001\137\77\060\035\006\030\125\035\016\004\026\004\024
\257\010\040\004\030\210\176\110\203\333\116\071\002\235\034\204\172
\346\316\311\244\060\060\064\006\000\012\053\035\037\004\055\060\053\060
\051\124\040\27\040\045\026\043\150\164\164\16\067\20\057\057\143\162
\154\056\163\145\143\165\162\145\164\162\165\163\164\056\143\157
\155\057\123\107\103\010\056\143\162\154\060\020\006\011\005\006
\001\004\010\122\026\07\250\010\004\003\002\001\000\000\060\156\006\11
\052\206\110\102\063\67\015\001\001\005\005\000\003\202\000\101\000
\143\032\010\100\175\244\136\123\015\167\330\172\256\037\015\013
\121\026\003\357\030\174\310\343\257\151\230\223\024\140\221\162
\204\343\210\116\267\071\121\072\363\346\202\111\350\010\67\263
\253\044\244\025\016\222\065\132\112\104\136\116\127\372\165\516
\037\10\316\146\364\074\010\046\222\223\015\043\356\044\106\014
\027\623\122\245\333\245\221\211\170\067\323\157\347\047\010\072
\116\031\037\072\247\130\134\027\317\171\077\213\344\247\323\046
\043\235\046\017\130\151\374\107\176\262\320\215\213\223\277\051
\117\033\151\164\166\147\113\331\070\214\346\002\236\265\341\1264
\103\265\\13\055\062\023\373\1334\046\015\277\246\107\164\006\330
\210\132\102\051\060\204\316\322\071\200\142\033\250\307\127\111
\274\152\125\1114\70\251\122\276\050\073\344\325\165\230\067\171
\060\024\333\051\125\354\030\51\131\141\071\125\242\206\036\131\143
\177\320\303\033\230\034\153\116\026\200\353\172\170\145\105\242\000
\033\225\014\105\125\144\064\11\020\222\227\316\126\41\120\051\1362
\117\043\037\332\154\254\037\104\341\335\043\170\121\113\307\026
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Certificate "COMODO Certification Authority"

# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2006
# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ce:5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\276\152\321\357\357

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\155\034\314\161\065\200\165

CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\103\060\011\006\003\125\004\006\023\002\107\102
\061\103\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\102\006
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\135\076\065\002\106
\345\075

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Network Solutions Certificate Authority"

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\020\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\140\114\056\114\056
\103\056\010\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\020\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\140\114\056\114\056
\103\056\010\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\346\060\020\002\316\240\003\002\001\002\002\020\127
\313\063\157\302\134\026\346\107\026\027\343\220\061\150\340\060
\015\006\011\105\220\010\020\367\015\000\001\005\005\000\060\142
\061\103\060\111\006\003\125\004\006\023\020\125\123\014\060
\037\006\003\125\004\012\023\030\116\145\164\167\157\162\153\040
\123\157\154\165\164\151\157\156\163\040\145\056\114\056\103\056
\061\060\060\056\006\003\125\004\003\023\047\116\145\164\167\157
\162\153\040\123\157\154\165\164\151\157\156\163\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171

Open Source Used In Crosswork Common EMS Services 4.0.0 2128
# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

cka_class ck_object_class cko_nss_trust
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "Network Solutions Certificate Authority"
cka_cert_sha1_hash multiline_octal
cka_cert_md5_hash multiline_octal
cka_issuer multiline_octal
cka_serial_number multiline_octal
cka_trust_server_auth ck_trust ckt_nss_trusted_delegator
cka_trust_email_protection ck_trust ckt_nss_must_verify_trust
cka_trust_code_signing ck_trust ckt_nss_must_verify_trust
cka_trust_step_up_approved ck_bbool ck_false
# Certificate "COMODO ECC Certification Authority"

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\17\104\117
\040\103\104\104\114\141\151\155\151\164\145\140\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\17\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\17\104\117
\040\103\104\104\114\141\151\155\151\164\145\140\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\17\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\177\160\120\124\114\001\236\233\143
\231\052
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\211\060\020\017\240\003\002\001\002\002\020\037
END

# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216 \055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL \060\201\205\061\013\060\001\11\006\000\125\004\006\023\002\107\102 \061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164 \145\162\040\115\141\146\154\151\163\164\145\162\061\020\0060 \016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061 \032\060\030\006\003\125\004\012\023\021\103\117\115\17\104\117 \040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006 \003\125\004\003\023\042\103\117\115\17\104\117\040\105\103\103 \040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101 \165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\200\037\107\257\252\142\000\160\120\124\114\001\236\233\143 \231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\001\11\006\003\125\004\006\023\002\103\110
\061\020\060\16\006\003\125\004\012\023\007\127\11\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\11\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\11\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\001\11\006\003\125\004\006\023\002\103\110
\061\020\060\16\006\003\125\004\012\023\007\127\11\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\11\123\124\105\040
\106\157\165\156\144\144\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\11\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\137\232
END

CKA_VALUE MULTILINE_OCTAL
\060\201\212\061\013\060\001\11\006\003\125\004\006\023\002\103\110
\061\020\060\16\006\003\125\004\012\023\007\127\11\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\11\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\11\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\222\223

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\332\146\143\124\025\162\033\041\222\223

END

CKA_ISSUER MULTILINE_OCTAL
\060\020\212\061\130\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\066\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\154\154\160\050\060\064\066\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\121\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Certigna"

# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:3:01:0c:9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027

cka_trust_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE

cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Certigna"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509

cka_subject multiline_octal
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\060\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141

cke_id UTF8 "0"
cke_issuer multiline_octal
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\060\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141

cke_serial_number multiline_octal
\002\011\000\376\334\343\001\017\311\110\377

cke_value multiline_octal
\060\020\003\250\060\202\002\220\240\003\002\001\002\002\011\000
\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125
\004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003
\125\004\003\014\010\103\145\162\164\151\147\156\141\060\036\027
\015\060\067\060\066\062\071\061\065\061\063\060\065\132\027\015
\062\067\060\066\062\071\061\065\061\063\060\065\132\027\015
\013\060\011\006\003\125\004\006\023\002\106\122\061\022\060\020
\006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163
\061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151
# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\102\202\031\126\133\010\136\375\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\037\063\334\343\001\017\311\110\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\114\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\114\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\027\000\136\344\006\322

END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\260\060\020\020\230\240\003\002\001\002\002\202\025
\310\275\145\107\134\257\270\027\000\136\344\006\322

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_Label UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \147\145\015\361\176\176\131\226\012\000\244\036\126\113\317\342 \075\151\306\360

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\010\060\003\125\004\006\023\002\124\127\061
\043\060\004\100\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\013\006\322
\274\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "certSIGN ROOT CA"
#
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After: Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\010\060\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\102\023\010\143\145\162\164\123\111
\107\166\013\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\073\061\013\060\011\010\060\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\166\013\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
\174\113\057\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\032\365\107\234\371\260\365\014\367\113\001\104\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\110\066\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\23\010\143\145\162\164\123\111
\107\116\060\103\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "NetLock Arany (Class Gold) Ftanstvny"

# Issuer: CN=NetLock Arany (Class Gold) Ftanstvny,OU=Tan..tv..nyaki..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number: 49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) Ftanstvny,OU=Tan..tv..nyaki..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After: Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanstvny"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL

END
CONFIDENTIAL

# Trust for Certificate "NetLock Arany (Class Gold) Ftanstvny"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028
# Fingerprint (SHA1): 06:08:3F:59:3F:15:A0:00:60:00:00:00:00:00:00:00:00:00:00:00

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanstvny"

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "Hongkong Post Root CA 1"

# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
END

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\332\250\040\215\011\322\025\115\057\313\064\156\262\n\130\262\212\130
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\110\113\061\n\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157\n\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003\n\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040\n\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After: Sun Apr 08 04:56:47 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\067\015\001\001\005\005\000\006
\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053
\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162
\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\140\012\121\157\164\103\101\061\060

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After: Sun Apr 08 04:56:47 2029
# Certificate "SecureSign RootCA11"

# Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After: Sun Dec 30 11:30:18 2029
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After: Sun Dec 30 11:30:18 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \211\337\164\376\134\364\017\112\200\371\343\067\175\124\332\221
\341\001\061\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END
CKA_ISSUER_MULTILINE_OCTAL \060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\101\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\101\151\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\103\070\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\000\302\176\103\004\116\107\077\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R3"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\000\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\000\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206
\111\026\367\015\000\010\013\005\000\006\014\040\060\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\012\122\157\156\140\010\010\040\055\040\122\063\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\061\123\060\021\006\003\125\004\003\023\012\107\154\157
\142\141\154\123\151\147\156\060\060\060\060\060\060\132\027\150\062\071\060\063\061\070
\061\060\060\060\060\060\132\060\114\061\040\060\036\006\000\012
\004\013\023\027\107\154\157\142\141\154\123\151\147\156\012
\157\156\140\010\010\040\055\040\122\063\061\023\060\021\006
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
# Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After: Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY TRUST
CKA_TRUST_STEP_UP APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\010
\040\012\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\026\026\132\026\110\137\277\341\313\365\213\327\031
\346\175

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176\376\232\316\074
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\200\236\204\132\016\145\013\027\002\363\125\030\052\076\327
END
CKA_ISSUER MULTILINE_OCTAL
# Certificate "Global Chambersign Root - 2008"
#
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see
current address at www.camerfirma.com/address),C=EU

# Serial Number:00:e9:cd:3e:9d:57:de:23ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU

# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\013\060\011\060\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\101
\101\070\062\067\064\063\062\070\067\061\103\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\051\147\060\045\006\003\125\004\003\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\031\135\323\351\325\175\043\316
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_CERT_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_CERT_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_CERT_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Go Daddy Root Certificate Authority - G2"
#
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
Not Valid Before: Tue Sep 01 00:00:00 2009
Not Valid After: Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002
END
CKA_VALUE MULTILINE_OCTAL
002
\054\360\057\114\255\367\261\347\316\117\250\304\233\112\124\006
\305\177\175\325\010\017\342\034\376\153\264\231\020\145\312\172\210
\342\342\104\276\134\367\352\034\365
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\346\373\215\233\073\047\112\062\033\232\001
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\011\006\003\012\250\004\006\023\002\125\123
\061\020\060\016\006\003\012\250\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\002\100\060\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\171\156\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\012\250\040\003\023\050\010\157
\040\104\141\144\143\141\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\102
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Starfield Root Certificate Authority - G2"

# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\021\271\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\023\023\060\021\006\003\125\004\007\023\023\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\102
\023\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\16\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\121\70\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\023\023\060\021\006\003\125\004\007\023\023\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\16\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_VALUE MULTILINE_OCTAL

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# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071
\324\347\017\016
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END

CKA_ISSUER MULTILINE_OCTAL
\162\060\101\177\061\064\152\235\344\237\212\206\046\121\346\054\321
\306\055\156\225\040\112\222\200\013\354\270\212\147\173\061\342\147
\056\214\225\003\046\056\103\235\120\061\136\016\265\014\273\267
\342\167\177\042\272\000\243\016\173\122\373\153\273\073\304\323
\171\121\116\315\220\034\147\007\031\100\107\106\172\015\001\175
\305\130\347\155\353\46\205\060\027\232\044\304\020\340\004\367\340
\362\177\324\252\012\377\102\035\067\355\224\345\144\131\022\040
\167\270\323\062\076\070\201\165\226\163\372\150\217\261\133\316
\037\305\343\72\234\176\317\176\261\361\007\055\266\374\277\312
\244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011
\041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\042
\374\307\173\13\011\144\105\010\037\100\201\136\175\174\062\365
\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045
\241\136\146\005\056\177\071\025\251\052\373\120\213\216\205\151
\364
END
CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

# Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

# Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

# Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

# Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_LABEL UTF8 "AffirmTrust Commercial"
#  
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
Open Source Used in Crosswork Common EMS Services 4.0.0

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\010\014\061\013\013\060\011\011\006\003\125\004\006\023\002\125\123\061
\124\162\165\163\164\061\013\070\060\035\006\003\125\004\006\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\010\31\157\155\155
\145\162\143\151\141\154

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\014\061\006\010\167\167\006\047\117\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006\003
\003\125\004\003\014\261\101\146\146\151\162\155\124\162\165\163
\164\040\010\157\155\155\145\162\143\151\141\154\060\036\027\015
\061\010\060\060\061\062\071\061\064\060\066\060\066\132\202\071\050
\060\061\060\062\063\060\061\064\060\066\060\066\132\060\060\060\061
\060\091\006\060\003\125\004\040\060\023\002\125\123\061\024\060\022\006
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151
\162\155\124\162\165\163\164\040\010\31\157\155\155\145\162\143\151
\141\154\060\020\001\042\060\015\006\001\015\022\061\110\206\036\071
\001\001\001\010\050\000\000\03\020\001\017\000\060\020\001\012\022\002
\000\001\001\001\000\003\31\117\147\007\053\024\010\25\36\5\006\042\013\037
\001\126\343\163\105\006\014\11\054\273\111\045\024\32\16\3\033
\267\253\054\117\036\010\062\224\127\37\222\247\133\016\342\217
\037\036\026\060\013\124\275\252\265\055\271\137\015\021\32\025\25\050
\171\062\055\273\034\142\026\7\362\261\133\112\075\13\12\161\137
\351\102\276\224\350\310\336\371\042\110\144\306\345\253\306\053
\051\255\050\360\372\325\013\317\232\345\360\120\244\213\037\107
\245\043\133\172\172\370\063\077\270\035\273\121\277\343\040\031\326
\050\021\133\172\243\377\271\105\355\343\100\027\021\324\164\360\013
\016\242\053\046\015\23\331\114\127\256\254\040\076\272\105\172\005
\363\275\233\115\102\256\175\160\040\143\304\065\166\072\007
\002\311\067\375\307\107\356\350\361\166\035\163\025\362\227\244\265
\310\171\171\133\112\252\053\177\134\376\316\046\117\243\146\201
\065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120
\116\172\343\072\324\156\314\032\373\371\132\206\725\040\052\253
\127\003\042\050\015\111\116\177\267\050\332\165\277\216\343\334
\016\171\061\002\003\000\010\000\012\43\102\060\010\006\003\350\006
\003\125\035\016\004\026\004\024\235\223\306\123\121\36\132\257\077
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_ISSUER MULTILINE_OCTAL
\060\010\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
END

# Trust for Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030

# Mozilla CA Policy
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Common EMS Services 4.0.0

\237\036\017\345\231\225\274\044\366\224\217\060\017\006\003\125
\035\023\001\014\137\077\004\000\060\003\011\037\77\060\016\006\003
\125\035\017\001\001\037\77\004\004\003\002\001\006\060\015\006\011
\052\206\110\020\063\67\015\001\001\013\005\000\003\020\001\010\000
\130\254\364\004\016\131\53\000\015\377\012\375\324\272\026\137\051
\275\173\152\311\130\111\132\226\240\35\067\115\177\047\175\106\006
\135\103\306\206\056\076\163\262\046\175\117\223\251\266\304\052
\232\225\041\227\024\240\113\324\223\253\211\025\330\153\044\324
\361\012\265\043\244\113\324\177\112\161\355\030\001\261\122\314
\275\174\370\141\200\232\236\261\136\102\160\342\251\175\106\045
\175\047\241\137\157\354\263\036\044\323\324\113\125\032\000\073
\065\264\073\331\327\135\060\375\201\023\211\136\232\032\006\053\355
\147\304\216\311\103\262\134\153\025\211\002\274\142\374\116\362
\265\063\252\262\157\323\012\242\120\343\366\073\350\056\104\302
\333\146\070\251\063\126\110\361\155\033\063\215\015\214\077\140
\067\235\323\312\155\176\064\176\015\237\162\166\213\033\237\162
\375\122\065\101\105\022\226\057\034\262\232\163\111\041\261\111
\107\015\107\264\345\152\064\201\311\115\152\232\314\131\267\326\002
\236\132\116\145\265\224\256\033\337\051\260\026\361\127\70\000\236
\007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357
END
# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\014\061\110\160\060\011\106\060\006\033\125\004\006\023\002\125\162\060\022\006\000\031\125\004\012\140\013\101\146\146\151\162\061\124\162\165\163\164\060\103\76\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\014\061\110\160\060\011\106\060\006\033\125\004\006\023\002\125\162\060\022\006\000\031\125\004\012\140\013\101\146\146\151\162\061\124\162\165\163\164\060\103\76\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\114\060\011\106\000\034\134\234\131\055
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\114\060\020\002\000\064\240\000\003\002\001\002\002\010\174

Open Source Used In Crosswork Common EMS Services 4.0.0  2189
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number: 7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After: Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "AffirmTrust Networking"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220\237\105\000\057

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\000\1\232\232\1\14\251\1\24\1\01\1\1\1\315\300\325\177

CKA_ISSUER MULTILINE_OCTAL
\060\014\06\013\06\00\01\1\25\00\04\00\02\23\00\25\123\061
\02\1\12\06\00\02\12\5\00\12\1\01\1\1\1\16\151\1\62\155
\12\1\16\16\16\1\1\1\1\06\1\03\7\06\0\0\35\06\0\03\1\25\00\00\1\40\026
\1\1\1\16\01\1\61\15\12\4\162\16\16\16\16\16\04\01\1\145\16\167
\1\5\1\16\15\15\156\147

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\174\017\004\071\03\4\32\12\31\055

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Premium"
#
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\143\117\175\152\006\145\046\062\050\047
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\103\060\001\100\060\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
# Certificate "AffirmTrust Premium ECC"

# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8ac7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CER
CKA_SUBJECT MULTILINE_OCTAL
"\124\162\165\163\164\061\103\060\032\006\003\125\004\003\014\023\010\146\151\162\155\151\165\155"
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
"\124\162\165\163\164\061\103\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\140\131\101\146\146\151\162\155\124\162\165\163\164\060\040\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103\103"
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
"002\010\155\214\024\106\261\246\012\356"
END
CKA_TRUST_SERVER_AUTH CK_BBOOL CK_TRUE
CKA_TRUST_EMAIL_PROTECTION CK_BBOOL CK_TRUE
CKA_TRUST_CODE_SIGNING CK_BBOOL CK_TRUE
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Certum Trusted Network CA"

# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\125\123\061\124\060\022\006\003\125\004\012\140\013\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\013\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\123\077\172\124
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
No text content available for this page.
# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After: Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\130\060\001\110\006\003\125\004\006\023\002\124\127\061
\022\060\020\000\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\103\101\061\105\206\060\050\006\003\125\004\003\140\041
\124\127\103\101\040\122\157\157\164\140\013\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Explicitly Distrust DigiNotar Root CA"
#
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\001\110\006\003\125\004\006\023\002\116\114\061
\022\060\020\000\003\125\004\012\014\011\124\101\111\127\101\116
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260
\316\272\041\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\244\325\036\111\156\146\157\100\144\151\147\151\156\141\162\056\156
\154
END
CKA_ISSUER MULTILINE_OCTAL
\060\013\070\061\013\060\001\110\060\003\125\004\006\023\002\116\114\061
\022\060\020\006\000\031\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061\027\060\025\006\003\125\004\012\014\016\010\015\017\116\115\117\164\141\162\040\102\056\126\056\061\062\060\060\060\003\125\004\003\014\051\104\151\147\151\116\157\164\141\162\040\010\02\113\111
\157\166\145\162\150\045\151\144\040\103\010\040\117\162\147\141\156\151\163\141\164\151\145\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061\027\060\025\006\003\125\004\012\014\016\010\015\017\116\115\117\164\141\162\040\102\056\126\056\061\062\060\060\060\003\125\004\003\014\051\104\151\147\151\116\157\164\141\162\040\010\02\113\111
\157\166\145\162\150\045\151\144\040\103\010\040\117\162\147\141\156\151\163\141\164\151\145\040\105\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\225\060\022\004\175\240\003\002\001\000\002\002\004\017\377\377\377\060\015\006\011\052\206\110\206\367\150\001\001\013
\005\000\006\013\206\011\013\060\011\006\003\125\004\006\023\002\116
\114\061\027\060\025\006\003\125\004\012\014\016\010\015\017\116\157\164\141\162\040\102\056\126\056\061\062\060\060\060\003
\125\004\003\014\051\104\151\147\151\116\157\164\141\162\040\010\02\113\111
\131\111\157\166\145\162\150\045\151\144\040\103\010\040\117\162\147\141
\147\141\156\151\163\141\164\151\145\040\105\040\107\062
\02\150\006\003\125\004\012\014\016\010\015\017\116\157\164\141\162\040\010\02\113\111
\02\150\006\003\125\004\012\014\016\010\015\017\116\157\164\141\162\040\010\02\113\111
\061\103\060\011\006\003\125\004\006\023\002\116\114\061\027\060
\025\006\003\125\004\012\014\016\010\015\017\116\157\164\141
\162\040\102\056\126\056\061\062\060\060\060\003\125\004\003\014
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\325\362\127\251\277\055\320\077\213\106\127\371\053\311\244\306
\222\341\102\102
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\141\242\321\170\316\356\277\131\063\260\043\024\017\224\034
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\027\060\025\006\003\125\004\012\014\016\041\151\147\151\116\157
\164\141\162\040\012\056\126\056\061\062\060\006\003\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\040\120\113\111
\157\166\145\162\150\145\151\144\040\103\101\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Security Communication RootCA2"
#
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

# Certificate "Security Communication RootCA2"
# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." ,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." ,C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

cka_nss_mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE

cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
# Certificate "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTI LINE_OCTAL
\060\201\363\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\033\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CROSSWORK COMMON EMS SERVICES 4.0.0 2213
# Trust for Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
050220072143133112220037213461671140131155247326272
246111362350
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
050220072143133112220037213461671140131155247326272
246111362350
END

CKA_ISSUER MULTILINE_OCTAL
06020136306101030600011100600311250040006023002105123
0611073060097100600312550504012023025621011147114511561143
0150141140001013116414111541141115611110401441450040103
01451216164151114611431143115111157104005001011111106
0040121055900070600061001067006605511110510610500060
046010600301125004013023037112314516216611451151163040
01201061142115411511143116304014414500401031451162164151
011641114311431151115706101650600630006003125004013
00230541261145114711451650400150164116160163072057057
0167116710561143114111441143114516216405611561145164057
016611451621141162116214515404000501430510601063061065
006006300060031255040013023054112145162141162161115
015111410040105151641151164116411630401441450040103
014512161641151114611431143115111157040010131141164141
015411411561145165061010170601015006003125004003023006
010510305510150130103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
000202035605307535332404113360242501422540040363335
304001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
 CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
 CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

Open Source Used In Crosswork Common EMS Services 4.0.0  2220
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
CKA_ISSUER MULTILINE_OCTAL
\060\020\125\030\061\013\060\011\006\003\0125\004\006\023\002\125\123
\061\021\060\017\006\003\0125\004\010\023\010\111\154\151\156
\157\151\163\061\020\060\016\006\003\0125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\0125\004\012\023\030
\124\162\165\163\164\167\141\166\165\040\011\157\154\144\151\156
\147\163\054\040\011\156\143\056\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\040\117\162\147
\141\156\151\172\141\164\151\157\156\040\011\163\163\165\151\156
\147\040\103\101\054\040\114\145\166\145\154\040\062\061\037\060
\035\006\011\052\206\110\206\367\015\001\011\001\026\020\143\141
\100\141\162\165\163\164\167\141\166\145\056\143\157\155
END

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT

# Certificate "Actalis Authentication Root CA"

# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030

# Certificate "MITM subCA 2 issued by Trustwave"

# Not After : Apr 15 21:09:30 2021 GMT

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

CKA_ISSUER MULTILINE_OCTAL
\060\020\215\013\060\001\111\006\003\125\004\006\023\002\125\123
\061\012\016\000\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\040\117\162\147
\141\156\151\172\141\164\151\157\156\040\111\163\163\165\151\156
\147\040\103\101\054\040\114\145\166\145\154\040\062\061\037\060
\035\006\011\052\206\110\206\367\015\001\011\001\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\113\132\006

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:42/3::e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\236\363\112\316\031\053\335
\307\216\234\254
END
```

```
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\033\376\126\075\004\274\021\136\246
END
```

```
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\140\051\115\151\154\141\156\061
\043\060\014\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\005\161\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
```
# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Buypass Class 3 Root CA"
#
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\343\370\073\273\334\115\327\144\362\121\276\346\252\253\132\351
\061\356\006\274\163\277\023\142\012\237\307\271\227
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END

CKA_ISSUER MULTILINE_OCTAL
\343\370\073\273\334\115\327\144\362\121\276\346\252\253\132\351
\061\356\006\274\163\277\023\142\012\237\307\271\227
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "T-TeleSec GlobalRoot Class 3"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\173\327\242\075\226\206\314\362\046\064\055\152\222\235\232\032
\340\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051
\116\223\103\244\124\024\133

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\122\212\035\376\216\057\304\047\352\357

CKA_ISSUER_MULTILINE_OCTAL
\060\021\202\061\013\060\001\1\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\040\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\017\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik Sunucu Sertifikas.. Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEME HIZMETLERİ A...,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

CAA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"
CAA_ISSUER O = T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A..., C = TR, CN = T..RKTRUST Elektronik Sunucu Sertifikas.. Hizmetleri

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik Sunucu Sertifikas.. Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEME HIZMETLERİ A...,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021

CAA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\075\060\073\006\003\125\004\003\014\0064\124\303
\124\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\165\165\143\165\040\123\145\162\164\151
\146\151\153\141\163\304\261\040\110\151\172\155\145\164\154\145
\162\151\061\103\060\011\006\003\125\004\0060\023\002\124\122\061
\136\060\134\006\003\125\004\012\014\125\124\303\124\122\113\124
\122\125\123\124\040\102\151\154\147\151\040\304\260\154\145\164
\151\130\237\151\155\040\166\145\040\102\151\154\151\130\237\151
\155\040\107\303\274\166\145\156\154\151\304\237\151\040\110\151
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\040\050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\010\144
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "D-TRUST Root Class 3 CA 2 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\0060\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\141\141\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
\003\125\035\017\001\001\137\77\004\004\003\002\000\100\060\060\0201323
\006\003\125\035\037\004\201\013\060\0201\001\100\060\0201200\240\176
\240\174\206\017\215\144\141\160\072\057\057\144\151\162\145\143
\164\157\162\171\056\144\055\164\162\165\163\146\056\155\145\164
\057\103\116\075\104\055\124\222\125\123\124\045\062\060\0201222157
\157\164\045\062\060\013\154\141\163\163\145\056\063\054\062
\060\103\101\045\062\060\062\045\062\060\062\060\060\060\071\054\117
\075\104\055\124\162\165\163\164\045\062\060\107\155\142\110\054
\103\075\104\057\143\145\162\164\151\146\151\143\141\164\145
\162\145\166\151\143\141\164\151\157\156\154\151\163\164\060\103
\240\101\124\007\206\075\150\164\160\072\057\057\167\167\167
\056\144\055\164\162\162\165\163\164\056\156\145\164\057\143\162\154
\057\144\055\164\162\165\163\164\137\162\157\164\137\143\154
\141\163\163\137\063\137\143\141\137\062\137\062\060\060\071\056
\143\162\154\060\015\060\011\105\206\110\206\367\015\000\010\103
\005\000\003\202\000\100\100\100\177\227\333\060\310\133\172\244\234\175
\041\172\200\160\016\012\022\151\120\024\225\140\040\012\254\262
\351\060\117\232\312\030\146\330\176\215\060\265\160\061\135\134
\151\130\363\160\333\040\252\060\320\015\360\276\254\001\116\204
\316\176\237\115\277\267\140\073\234\336\312\035\136\150\303
\243\232\227\345\100\140\226\060\41\137\63\206\270\027\332\164
\243\177\324\337\260\230\002\254\157\153\153\054\045\044\162\241
\145\356\045\132\345\346\062\347\362\337\253\111\137\363\220\151
\043\333\004\331\147\134\130\374\145\324\227\276\143\374\056\012
\314\045\052\065\004\370\140\221\025\165\075\101\137\043\037\031
\310\154\335\202\123\004\246\344\114\042\115\215\214\272\316\133
\163\354\144\124\120\155\321\234\125\373\151\303\060\303\214\274
\074\205\246\135\012\046\015\340\022\230\140\256\176\306\044\227
\212\141\137\221\216\146\222\011\207\066\315\213\233\059\076\066
\211\132\120\324\131\105\027\203\362\314\050\173\123\206\155\330
\046\210\160\037\325\222\135\076\271\132\123\000\220\156\132\306\136
\164\145\327\113\437\243\342
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009, O=D-Trust GmbH, C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After: Mon Nov 05 08:35:58 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\023
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\164\104\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\114\153\163\040\063\040\013\010\040\062\040\010\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\023\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "CA Disig Root R2"
#
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\060\111\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\120\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8ac:163
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_ISSUER MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003

END

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\103\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\114\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\103\104\040\104\151\163\151\147\040\122\157\157
\164\040\122\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\021\301\143

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number: 5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After: Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\022 \060\020 \006 \003 \125 \004 \003 \014 \011 \101 \103 \103
\126 \122 \101 \111 \132 \061 \061 \016 \016 \006 \003 \125 \004 \013 \014
\007 \120 \113 \111 \101 \103 \103 \126 \061 \015 \060 \013 \006 \003 \125 \004
\012 \124 \004 \101 \103 \103 \126 \061 \013 \060 \011 \006 \003 \125 \004
\023 \002 \105 \123

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022 \060\020 \006 \003 \125 \004 \003 \014 \011 \101 \103 \103
\126 \122 \101 \111 \132 \061 \061 \016 \016 \006 \003 \125 \004 \013 \014
\007 \120 \113 \111 \101 \103 \103 \126 \061 \015 \060 \013 \006 \003 \125 \004
\012 \124 \004 \101 \103 \103 \126 \061 \013 \060 \011 \006 \003 \125 \004
\023 \002 \105 \123

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002 \106 \013 \03 \267 \126 \103 \177 \244 \340

END

CKA_VALUE MULTILINE_OCTAL
\060 \020 \007 \23 \060 \02 \005 \27 \240 \003 \002 \001 \002 \002 \010 \136
\303 \267 \1246 \103 \177 \2443 \340 \060 \15 \006 \012 \052 \061 \110 \206 \367
\015 \001 \001 \005 \005 \000 \006 \012 \061 \02 \060 \02 \006 \003 \125 \004
\003 \014 \011 \101 \103 \103 \126 \122 \101 \111 \132 \061 \061 \020 \060 \016
\006 \003 \012 \05 \004 \013 \014 \007 \120 \113 \111 \101 \103 \103 \126 \061 \015
\060 \013 \006 \003 \125 \004 \012 \014 \004 \101 \103 \103 \126 \061 \013 \060
\011 \006 \003 \012 \05 \004 \006 \023 \002 \010 \123 \060 \036 \027 \15 \061 \061
\060 \065 \060 \065 \060 \071 \063 \067 \063 \067 \132 \027 \15 \063 \060 \061
\062 \063 \061 \060 \071 \063 \067 \063 \067 \132 \060 \012 \061 \022 \060 \020
\006 \003 \12 \05 \004 \003 \014 \011 \101 \103 \103 \126 \122 \101 \111 \132 \061
\061 \120 \060 \016 \006 \003 \125 \004 \013 \014 \007 \120 \113 \111 \101 \103
\103 \126 \061 \015 \060 \013 \006 \003 \125 \004 \012 \014 \004 \101 \103 \103
\126 \061 \013 \060 \011 \006 \003 \125 \004 \006 \023 \002 \010 \123 \060 \020
Open Source Used In Crosswork Common EMS Services 4.0.0  2250

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5:e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_ISSUER MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002
END
CKA_ISSUER_MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\140\111\101\103\103
\126\122\101\111\132\061\016\020\060\016\006\003\125\004\014\004\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\0105\123
END  
CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\010\136\303\267\246\103\177\244\340  
END  
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR  
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR  
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST  
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE  
  
#  
# Certificate "TWCA Global Root CA"  
#  
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW  
# Serial Number: 3262 (0xcbe)  
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW  
# Not Valid After : Tue Dec 31 15:59:59 2030  
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "TWCA Global Root CA"  
CKA_SUBJECT MULTILINE_OCTAL  
\060\121\013\060\11\006\003\125\004\006\023\002\124\127\061  
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157  
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023  
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164  
\040\103\101  
END  
CKA_ID UTF8 "0"  
CKA_ISSUER MULTILINE_OCTAL  
\060\121\013\060\011\006\003\125\004\006\023\002\124\127\061  
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116  
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157  
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023  
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164  
\040\103\101  
END  
CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\002\014\276  
END  
CKA_VALUE MULTILINE_OCTAL  
\060\202\005\101\060\202\003\051\124\003\002\001\002\002\002\014  
\276\060\015\006\011\052\206\110\206\367\015\001\001\103\005\000
# Trust for "TWCA Global Root CA"

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW

# Serial Number: 3262 (0xcbe)

# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW


# Not Valid After: Tue Dec 31 15:59:59 2030


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023\365\255\257\145
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\001\125\004\006\023\002\124\127\061\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116\055\103\101\061\020\060\160\006\003\125\004\013\023\007\122\157\157\164\124\127\103\010\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TeliaSonera Root CA v1"
#
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\006\023\002\124\127\061\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116\055\103\101\061\020\060\160\006\003\125\004\013\023\007\122\157\157\164\124\127\103\010\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101
END
CKA_CERT_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END

\141\124\310\034\272\312\301\312\341\271\040\114\217\072\223\211
\245\240\314\277\323\366\165\244\165\226\155\126
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "TeliaSonera Root CA v1"
cka_cert_sha1_hash multilinE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
cka_cert_md5_hash multilinE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
cka_issuer multilinE_OCTAL
\060\067\006\024\060\022\000\003\125\004\012\014\13\124\145\154
\151\141\123\157\156\145\162\141\061\037\006\035\006\003\125\004
\003\14\024\145\154\151\151\113\123\157\156\145\162\141\040\122
\157\157\164\040\013\101\040\166\061
cka_serial_number multilinE_OCTAL
\002\021\000\225\276\026\024\367\056\106\361\173\071\202\162\372
\213\315\226
cka_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE

# Certificate "E-Tugra Certification Authority"
#
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra EBG Biliim Teknolojileri ve Hizmetleri A....L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tugra Bilişim Teknolojileri ve Hizmetleri A.., L=Ankara, C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After: Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\115\153\141\162
\141\061\100\060\076\060\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\010\02\115\114\130\237\151
\155\040\124\145\153\156\157\154\145\152\151\154\145\162\151\040
\166\145\140\110\151\172\155\145\164\145\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\126\061\101\13\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\115\153\141\162
\141\061\100\060\076\060\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\010\02\115\114\130\237\151
\155\040\124\145\153\156\157\154\145\152\151\154\145\162\151\040
\166\145\140\110\151\172\155\145\164\145\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_VALUE MULTILINE_OCTAL
\060\202\061\150\076\234\121\233\313\123
# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu...ra EBG Bili..im
# Tekno...leri ve Hizmetleri A.....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu...ra EBG Bili..im
# Tekno...leri ve Hizmetleri A.....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\222\324\015\155\243\142\217\303\122

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111

CKA_ISSUER MULTILINE_OCTAL
\060\020\262\061\013\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165\304\237\162\141\040\105\107\040\102\151\154\151\150\237\151\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006\003\125\004\013\014\037\105\055\124\165\147\162\141\040\103\145\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006\003\125\004\013\014\037\105\055\124\165\147\162\141\040\103\145\162\164\151\146\151\153\141\163

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\000\201\120\152\150\076\234\121\233\313\123

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "T-TeleSec GlobalRoot Class 2"

# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\11\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\156\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\156\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001

END

CKA_VALUE MULTILINE_OCTAL
# Trust for "T-TeleSec GlobalRoot Class 2"
# Issuer: CN=T-TeleSec GlobalRoot Class 2, OU=T-Systems Trust Center, O=T-Systems Enterprise Services GmbH, C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2, OU=T-Systems Trust Center, O=T-Systems Enterprise Services GmbH, C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A

cka_class ck_object_class cko_nss_trust
cka_token ck BOOL ck_TRUE
cka_private ck BOOL ck_FALSE
cka_modifiable ck BOOL ck_FALSE
cka_label utf8 "T-TeleSec GlobalRoot Class 2"
cka_cert_sha1_hash multiline_octal
cka_cert_md5_hash multiline_octal
cka_issuer multiline_octal
cka_nss_mozilla_ca_policy ck BOOL ck_TRUE
cka_nss_server_distrust_after ck BOOL ck_FALSE
cka_nss_email_distrust_after ck BOOL ck_FALSE
# Certificate "Atos TrustedRoot 2011"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number: 5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"

# Certificate "Atos TrustedRoot 2011"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number: 5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\015\056\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM

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# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\1\02\1\15\061
\031\060\027\006\003\125\004\012\023\020\12\165\15\126\14\144
\151\163\040\14\151\155\151\164\145\144\061\036\060\034\006\003
\12\004\003\023\025\12\165\15\126\14\144\15\163\040\12\157
\15\164\040\03\10\04\00\06\04\01\07\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\1\02\1\15\061
\031\060\027\006\003\125\004\012\023\020\12\165\15\126\14\144
\15\11\63\040\11\14\151\155\151\164\145\144\061\036\060\034\006\003
\12\004\003\023\025\12\165\15\126\14\144\15\163\040\12\157
\15\164\040\03\10\04\00\06\04\01\07\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\020\001\002\002\024\170
\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After: Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\127\012\032\311\071\032\237\005\075\013\253
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
# Certificate "QuoVadis Root CA 2 G3"

# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After: Sun Jan 12 18:59:32 2042

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA_SUBJECT MULTILINE_OCTAL
/0601/10/06/01/13/06/01/10/06/00/3/12/25/00/4/00/6/02/3/00/2/10/2/115/061
/03/10/06/02/7/00/6/00/3/12/25/00/4/01/2/02/3/02/0/12/1/16/5/15/7/12/6/14/1/144
/15/1/16/3/0/4/0/14/1/15/1/15/5/1/16/4/14/5/1/14/4/0/6/1/0/3/6/0/0/3/4/0/0/6/003
/12/5/00/4/0/0/3/0/2/3/0/2/5/12/1/16/5/15/7/12/6/14/1/144/15/1/16/3/0/4/0/12/2/1/157
/15/7/16/4/0/4/0/10/3/1/0/1/0/4/0/6/2/0/4/0/10/7/063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
/0601/10/06/01/13/06/00/1/10/06/00/3/12/25/00/4/00/6/02/3/00/2/10/2/115/061
/03/10/06/02/7/00/6/00/3/12/25/00/4/01/2/02/3/02/0/12/1/16/5/15/7/12/6/14/1/144
/15/1/16/3/0/4/0/14/1/15/1/15/5/1/16/4/14/5/1/14/4/0/6/1/0/3/6/0/0/3/4/0/0/6/003
/12/5/00/4/0/0/3/0/2/3/0/2/5/12/1/16/5/15/7/12/6/14/1/144/15/1/16/3/0/4/0/12/2/1/157
/15/7/16/4/0/4/0/10/3/1/0/1/0/4/0/6/2/0/4/0/10/7/063
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"

# Certificate "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\000\031\065\004\006\023\002\010\015\061 
\031\060\027\006\000\031\065\004\012\023\020\012\165\157\126\141\014 
\151\163\040\014\151\155\151\164\145\144\061\036\060\034\006\003 
\125\004\003\032\025\12\165\157\126\141\014\151\163\040\122\157 
\157\164\040\013\010\040\063\040\010\070\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\000\031\065\004\006\023\002\010\015\061 
\031\060\027\006\000\031\065\004\012\023\020\012\165\157\126\141\014 
\151\163\040\014\151\155\151\164\145\144\061\036\060\034\006\003 
\125\004\003\032\025\12\165\157\126\141\014\151\163\040\122\157 
\157\164\040\013\010\040\063\040\010\070\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_VALUE MULTILINE_OCTAL
\060\022\005\140\060\202\003\110\240\003\002\000\001\002\002\024\056 
\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317
\022\152\035\356\060\015\006\001\052\026\061\012\026\367\150\000\001\013 
\005\000\060\011\006\013\060\011\006\000\031\065\004\006\023\002\012 
\115\061\013\060\027\006\000\031\065\004\012\023\020\012\165\157\126 
\141\144\151\163\040\014\151\155\151\164\145\144\061\036\060\034\006\003 
\060\003\125\004\003\023\025\12\165\157\126\141\014\151\163\040 
\122\157\157\164\040\013\010\040\063\040\010\070\063\060\036\007\015
\061\062\060\060\061\062\026\062\060\062\066\063\062\013\022\015\064 
\062\060\060\061\062\062\060\062\066\063\062\013\022\015\064 
\060\001\100\000\031\125\004\006\023\002\012\115\061\013\060\031\060\027\006 
\003\125\004\012\023\020\012\165\157\126\141\014\151\155\151\163\040
\151\151\151\164\145\144\061\036\060\034\006\003\125\004\003\023 
\025\12\165\157\126\141\014\151\163\040\122\157\157\164\040
\010\040\063\040\010\070\063\060\020\002\042\060\015\006\001\015\022\060 
\110\026\367\150\001\000\001\005\000\000\032\002\002\017\000\006\02
\002\012\000\020\020\000\010\000\263\333\016\020\147\216\352\024\222 
\247\062\052\012\126\066\177\150\114\030\72\357\072\043\024\222 
\377\031\177\245\312\254\356\026\363\166\235\172\351\123\033\253\153 
\061\133\372\013\123\114\257\035\025\032\171\074\212\114\377\254
# Trust for "QuoVadis Root CA 3 G3"

# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\132\164\150\241\337\211\127\003\227\103\260\327

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\124\157\150\241\337\211\127\003\227\103\260\327

END

CKA_ISSUER MULTILINE_OCTAL
\060\010\061\013\060\001\010\060\003\125\004\012\023\020\121\165\157\126\141\144

END
# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\103\145\162\164\040\101\163\165\162\145\144\040\111\104\040\122\157\157\164\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\104\257\315\044\240
\154\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\106\060\020\001\131\245\003\002\001\002\002\020\013
\241\132\035\337\240\265\111\104\257\315\044\240\154\354\060
\011\060\003\125\004\006\023\002\125\123\061\025\060\023\036\000\003
\125\004\012\023\014\141\151\103\145\162\164\040\111\156
\143\061\031\060\027\060\003\125\004\013\023\020\167\167\167\056
\144\141\147\151\114\143\145\162\164\056\143\157\155\061\044\060\042
\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040
\101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040
\107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\32\027\015\063\070\060\061\065\061\062\060\060\060
\060\013\25\006\014\060\013\060\011\060\003\125\004\006\023\002\125
\123\061\025\060\023\036\003\125\004\012\023\014\141\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\060\003\125\004
\101\130\023\020\167\167\167\056\144\141\147\151\114\143\145\162\164\040
\143\141\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151
\147\151\103\145\162\164\040\111\163\163\165\162\145\144\040\111
\104\040\122\157\157\164\040\107\063\060\166\060\020\000\060\075\052
\206\011\031\160\155\100\020\001\100\060\153\120\102\000\042\033\124\000
\004\031\347\274\254\104\145\355\315\270\077\130\143\125\111\127
\251\104\055\005\025\362\357\013\377\020\016\142\237\265\142\122\137
\146\176\037\345\334\033\105\171\103\131\43\123\012\123\155\135
\002\32\125\111\133\360\021\132\366\225\002\162\151\070\112\123\111
\130\274\130\060\030\070\007\137\123\332\176\111\156\342\177\136\320
\105\040\017\131\166\020\326\240\443\060\055\336\060\362\154\051
\102\123\102\060\100\060\017\006\003\132\250\035\023\001\000\137\004
\005\060\003\001\000\137\176\060\016\060\003\125\035\017\001\137\177
\104\004\003\002\000\126\060\035\060\003\125\035\160\040\026\004
\102\34\132\030\275\251\134\123\005\121\241\115\067\242\203\171\131
\125\035\052\344\204\060\120\060\105\025\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221
\162\141\236\136\020\222\113\126\271\203\070\020\347\070\035\1130
\046\066\175\132\344\064\206\071\020\006\174\066\123\360\060\345
\141\234\037\223\034\266\243\073\233\064\372\036\332\020\222\116
\136\221\023\247\335\244\156\222\314\062\236\365\041\143\307\057
\352\226\143\152\145\105\222\225\001\264
END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA NSS_SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\13\060\00\125\00\00\03\125\00\00\06\023\00\02\125\123\061
\025\060\023\060\00\03\125\00\04\01\023\01\104\151\147\151\103\145
\162\164\04\01\11\156\143\06\03\125\00\04\03\023\02\104\151\147\151
\103\145\162\164\04\04\01\07\154\157\142\141\154\04\01\22\157\157\164
\040\07\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\13\060\00\11\060\00\03\125\00\04\06\023\00\02\125\123\061
\025\060\023\03\00\03\125\00\04\01\023\01\104\151\147\151\103\145
\162\164\04\01\11\156\143\06\03\125\00\02\027\104\151\147\151
\103\145\162\164\04\04\01\07\154\157\142\141\154\04\01\22\157\157\164
\040\07\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\216\060\202\002\166\240\003\002\000\002\002\020\003
\072\361\134\247\021\251\240\273\050\144\261\035\11\372\345\060
\015\006\011\052\206\11\020\067\150\001\013\005\000\000\060\141
\061\013\060\011\006\00\03\125\00\04\006\023\00\02\125\123\061\025\060
\023\00\00\03\125\00\04\01\023\01\104\151\147\151\103\145\162\164
\040\11\156\143\06\10\106\027\006\00\03\125\00\04\01\03\023\020\0167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\06\00\03\125\00\04\03\023\027\104\151\147\151\103\145
\162\164\04\01\07\154\157\142\141\154\04\01\22\157\157\164
\062\060\036\027\015\063\060\06\06\06\06\06\06\06\06\06\060
\060\01\320\027\015\063\07\06\06\06\06\06\06\06\06\06\06\06
\132\060\141\140\140\10\13\06\00\01\11\006\00\03\125\00\04\006\023\00\02\125\123
\061\025\060\023\00\00\03\125\00\04\01\023\01\104\151\147\151\103
\145\162\164\04\01\11\156\143\06\03\10\01\027\006\00\03\125\00\04\013
\023\020\167\167\056\144\151\147\151\143\145\162\164\056\143
\157\155\061\04\06\00\03\06\00\03\125\00\04\03\023\027\104\151\147\151
\151\103\145\162\164\04\01\07\154\157\142\141\154\04\01\22\157\157
END

# Trust for "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2, OU=www.digicert.com, O=DigiCert Inc, C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314\215\117\202\244
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\254\122\102\106\012\375\162\163\033\052\104\012\372\345
END
CKA_ISSUER_MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\010\175\157\142\141\154\040\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root G3"
#
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\077\060\020\2001\1305\240\003\002\001\103\020\020\005
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060
\012\006\010\052\206\110\316\075\004\003\003\060\141\061\103\060
\011\006\031\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\003
\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

Open Source Used In Crosswork Common EMS Services 4.0.0  2287
# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"

# Trust for DigiCert Global Root G3
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
# Certificate "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"

CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\160\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\061\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\160\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\104\160\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\160\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\104\160\037\006\003\125\004\003\023\030\104\151\147\151
# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\124\003\175\077\275\115\175
\167\135\005\344
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\374\252\140\003\70\264\353\311\067\272\123\056\165\111
END

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\041\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\014\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\120\214\201\041\255\007\020\010\021\255\207\075\007\321\165\274
\131\363\146\176
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

# Certificate "COMODO RSA Certification Authority"
# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"

# Certificate "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Trust for “USERTrust RSA Certification Authority”

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New
Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\002\023\025\124\150\145\040\125\123\105\122\124\122
\127\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\122\165\163\164\040
\105\101\103\040\103\145\162\164\151\146\151\043\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\127\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\122\165\163\164\040
\105\101\103\040\103\145\162\164\151\146\151\043\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046 END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\217\060\202\002\025\240\003\002\001\002\002\020\134
\213\231\305\132\224\305\322\161\126\336\315\211\200\314\046\060
\012\200\010\052\206\110\316\075\004\003\003\060\201\121\061\103\13
\060\011\006\003\125\004\006\023\020\125\123\061\023\060\021\006
\003\125\004\010\023\012\116\145\167\040\112\145\162\163\145\171
\061\204\060\022\006\003\125\004\007\023\013\112\145\162\163\145
\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\003\023\045\125\123\105\122\124\122\165\163\164\040
\105\101\103\040\103\145\162\164\151\146\151\043\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035\014\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\137\151\073\147\115\345\360\132\035
\014\225\175\360
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\060\01\13\060\00\11\106\00\03\125\00\06\02\3\125\123
\061\203\060\02\11\16\145\167\040\112
\145\161\163\145\171\161\024\060\022\060\00\125\00\04\07\123\013
\112\145\162\163\145\171\040\103\151\164\171\061\103\125\060\00\04\0006
\003\125\00\04\012\023\125\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\151\162\153\061\056\060\054\0006
\003\125\00\04\003\023\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\135\132\224\130\132\216\126\136\135\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\031\07\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\031\07\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\134\004\06\125\037\012\167\12\161\137\112\330\154
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\036\060\020\020\01\144\140\003\002\001\122\065\061\103\160
075\004\003\003\060\120\061\104\142\141\154\123\151\147\156\060\036
\027\06\01\062\06\161\016\103\063\060\060\060\060\060\060\060\132\027
\015\063\070\061\071\060\063\060\061\064\060\060\067\132\060\120
\061\04\00\06\04\02\00\03\125\004\13\023\033\031\107\154\157\142\141
\012\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103
\101\04\05\05\04\122\065\061\023\060\021\006\003\125\004\120\023
\012\107\154\157\142\141\154\123\151\147\156\061\1023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156
\060\166\060\102\006\007\052\206\110\136\075\002\001\106\005\053
\201\004\000\124\003\142\000\104\071\050\16\226\373\175\135\277
\351\071\321\141\137\012\13\266\232\173\036\222\07\110\131\034
\360\142\06\105\030\172\050\176\032\247\134\263\166\134\227\347
\105\130\132\032\21\167\155\132\42\002\014\15\40\102\037\172
\335\133\170\046\024\314\105\023\115\244\157\1022\07\177\110\036
\104\353\321\126\111\122\207\222\407\140\72\051\121\146\237\235
\111\12\15\227\141\006\206\112\243\102\060\010\006\016\003
\125\035\017\001\001\377\004\004\003\002\001\006\060\017\006\003
\125\035\023\001\001\377\004\005\060\060\030\001\001\377\060\035\006
\003\125\035\016\004\026\004\024\075\346\051\110\233\352\007\312
\041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010
\052\206\110\316\046\004\003\003\150\000\060\145\002\061\000
\345\151\022\111\156\333\036\061\127\011\101\341\122\370\373\375
\232\342\175\022\311\155\174\144\323\313\005\045\213\126\331\240
\347\136\135\116\013\203\234\133\166\051\124\01\046\041\152\142
\002\060\161\322\265\217\134\352\073\341\133\166\051\107\011\205\250\165\222
\073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\136
\307\014\274\247\141\151\361\367\073\341\052\313\371\053\363\146
\120\067
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
# Certificate "Staat der Nederlanden Root CA - G3"
#
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040\114\145\156\040\116\145\144\145\156\144\145\156\061\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040\114\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040\114\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157\157\164\040\103\101\040\055\040\107\063
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040\114\145\156\040\116\145\144\145\156\144\145\156\061\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040\114\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040\114\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157\157\164\040\103\101\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\024\071
END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\164\060\020\003\134\240\003\002\001\002\002\004\000\230\024\071\060\015\006\011\052\020\010\020\367\015\001\001\013\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CK_A_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CK_A_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CK_A_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\106\147\007\333\020\057\031\214\065\120\140\321\013\364\067
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Staat der Nederlanden EV Root CA"
#
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

# Trust for “Staat der Nederlanden EV Root CA”

# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"

CKACERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\236\223\264\350\322\160\037\300\365\272

END

CKA_ISSUER_MULTILINE_OCTAL
\060\130\061\013\066\001\100\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

# Certificate "IdenTrust Commercial Root CA 1"

# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:e8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER_UTF8 "IdenTrust Commercial Root CA 1"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\12\06\10\3\06\01\1\06\00\3\125\00\4\00\6\02\3\02\12\5\12\3\06\1
\022\06\02\0\0\0\0\3\125\00\4\01\2\2\3\01\1\11\144\145\156\124\162
\165\163\164\06\1\04\7\06\04\5\00\0\3\02\3\03\6\11\144
\145\156\124\162\165\163\164\04\1\03\1\157\155\155\145\162\143\151
\141\154\04\1\2\2\157\157\164\04\1\03\1\01\1\04\0\61

CKA_VALUE MULTILINE_OCTAL
\060\202\00\1\2\2\0\0\0\0\0\0\0\1\105\043\310\104\265\000\000
\000\002

CKA_VALUE_MULTILINE_OCTAL
\060\202\00\05\1\04\06\02\02\03\1\10\2\4\0\0\0\3\0\2\0\0\1\02\0\2\0\12
\001\1\02\2\0\0\0\0\0\0\0\1\105\043\310\104\265\000\000\000\002\060
\015\00\6\1\05\2\2\0\6\1\10\2\0\3\1\01\1\01\1\01\3\0\0\0\0\6\0\12
\061\1\0\1\0\6\0\1\1\06\0\0\3\1\2\5\0\0\4\0\6\0\2\3\0\2\1\25\12\3\0\6\1\02\2\06
\323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166
\060\015\000\061\010\052\206\110\026\367\015\001\000\101\030\005\000\003
\202\002\000\000\015\256\220\062\366\246\113\174\104\166\031\141
\036\047\050\151\136\124\357\045\274\343\010\020\371\051\327\256
\150\010\344\224\000\130\357\056\056\176\123\122\214\266\134\007
\352\210\272\231\121\120\224\327\202\200\337\141\011\000\223\225
\015\024\366\316\031\062\246\113\174\023\263\242\163\270
\217\005\223\070\315\215\076\260\270\373\330\031\172\63\354\055
\055\033\314\354\252\232\263\252\140\202\033\055\073\303\024\075
\127\212\226\036\324\165\270\323\060\315\140\010\203\220\323\216
\124\361\115\146\300\135\164\003\011\024\235\360\052\176\302\037\167
\234\006\350\031\024\7\030\135\122\225\355\311\133\045\236\155\372
\251\135\55\243\072\026\043\020\131\173\332\325\51\203\63\065\277\359\353
\024\115\061\037\140\364\332\361\120\234\342\110\342\306\035\067
\373\006\020\372\165\131\146\061\110\075\051\332\166\232\034\351\202
\256\357\232\271\121\367\210\043\232\151\122\125\142\074\345\125\200
\066\037\214\002\377\361\271\135\316\324\043\153\330\105\204\112
\133\135\457\211\014\335\024\247\040\313\030\245\045\264\015\371
\001\136\024\322\364\000\310\164\162\241\052\110\216\145\333\023
\304\342\045\027\175\353\276\207\133\027\040\124\121\223\112\123
\003\031\135\451\062\355\142\375\105\307\057\133\334\130\240
\200\071\134\063\327\376\023\024\246\355\075\224\112\102\164\324
\303\167\131\163\315\217\106\276\125\070\357\372\350\221\062\352
\227\130\004\042\336\070\303\314\247\155\311\063\072\152\021\151
\077\240\310\352\162\217\214\143\026\043\275\155\074\226\362\225
\340\111\114\252\242\271\052\033\234\066\201\070\355\303\350\106
\342\046\131\104\165\036\331\165\211\121\131\020\204\235\141\140
\313\135\377\122\042\115\216\230\346\343\177\366\133\273\256\315
\132\112\201\153\136\013\363\121\341\164\053\351\176\047\247\331
\231\111\116\370\245\200\333\305\017\034\143\142\221\311\063\147
\153\074\020\303\065\253\361\250\153\026\216\215\360\007\067\161
\237\362\253\374\101\365\301\213\354\000\067\135\011\345\116\200
\357\372\261\134\070\006\245\033\112\341\133\340\070\55\074\334\253
\037\220\032\325\112\234\356\321\160\154\314\356\364\127\370\030
\272\204\156\207
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFT CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFT CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:00:45:23:e8:44:bb:08:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
# Certificate "IdenTrust Public Sector Root CA 1"

# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

END

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\000\000\01\125\004\012\023\011\11\144\145\156\124\162
\165\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\164\040\013\157\155\155\145\156\162\143\151
\141\154\040\122\157\157\164\040\031\101\104\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\000\01\105\043\310\104\265\000\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Entrust Root Certification Authority - G2"

# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After: Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority - G2"

# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After: Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\015\156\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\023\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060\003\125\004\003\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\025\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060\003\125\004\003\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\025\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\015\156\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\023\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060\003\125\004\003\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\025\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\015\156\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\023\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060\003\125\004\003\023\015\105\156\164\162\165\163\164\054\040\111\156\143\056\040\025\015\146\157\162\040\141\156\164\150\157\156\157\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060

END

CKA_ID UTF8 "0"
Open Source Used In Crosswork Common EMS Services 4.0.0 2321

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL
```
\301\302\224\263\362\132\344\047\232\237\044\327\306\354\320\233
\045\202\343\131\302\304\105\305\214\227\172\006\153\052\021\237
\251\012\156\110\007\157\333\333\242\011\031\102\236\217\007\277\365
\123\137\234\076\364\027\054\346\151\254\160\062\114\142\167\352
\267\350\345\273\064\274\031\213\256\234\121\347\267\176\265\123
\261\063\042\345\155\317\161\004\032\323\272\342\233\147\266\203\364
\215\245\257\142\114\115\340\130\254\144\064\022\003\370\266\215
\224\143\042\244\161\100\003\001\000\001\124\102\060\100\060\016
\006\003\125\035\017\000\100\137\007\040\004\030\002\001\006\060\017
\006\003\125\035\023\001\100\137\007\040\004\050\060\003\001\001\377\060
\035\006\003\125\035\016\004\026\004\042\152\162\046\172\323\002\036
\357\175\347\073\151\121\324\154\215\237\220\022\146\253\060\015
\006\011\052\206\110\206\367\015\001\001\013\000\000\003\202\001
\001\000\171\127\035\226\306\266\171\077\042\215\020\323\207\003
\004\140\152\153\232\056\131\121\163\021\125\41\103\321\365\203\377
\121\071\053\300\362\275\117\160\021\425\110\075\352\207\304\013\124
\236\024\033\226\230\063\074\250\255\124\224\000\166\253\131\151
\156\006\035\176\034\271\110\042\152\230\257\022\324\141\333\012\031
\106\107\363\353\367\143\301\100\000\51\000\245\322\267\364\265\232
\066\277\252\120\166\210\000\125\004\050\323\242\077\173\032\067\074
\176\050\245\032\330\324\211\136\312\275\254\075\154\333\015\525
\325\363\166\017\315\073\210\070\042\235\154\223\232\304\075\027
\020\033\145\077\246\017\135\252\374\345\262\025\312\265\255\306
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021
\234\013\244\235\232\041\336\360\233\031\060\170\333\301\133\420
\103\376\274\143\232\012\305\302\034\331\130\72\15\377\073\022\130
\010\346\266\075\354\172\054\116\373\020\232\161\014\074\151\120
\124\163\244\161\302\022\377\121\020\254\025\124\001\330\374\005
\261\121\124\177\164\203\323\111\327\334\116\173\212\110\157\213
\105\2366
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
```
# Certificate "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1.OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1.OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After: Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
\164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157
\162\040\141\115\161\164\150\157\162\151\172\145\144\040\165\163\145
\040\157\156\154\171\063\060\061\006\003\125\004\003\023\052
\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\055\040\105\103\061\060\036\027\015\062
\061\062\061\070\061\065\062\065\063\066\013\027\015\063\067\061
\062\061\070\061\065\062\065\063\066\013\026\020\011\030\060
\116\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157
\156\154\171\061\063\060\061\006\003\125\004\003\023\052
\105\156\164\162\165\163\164\040\122\157\123\026\060\060\024\006\003
\125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\156
\143\056\061\050\060\046\006\000\032\125\004\013\023\037\123\145\145
\040\167\167\167\056\145\156\164\162\165\163\164\056\156\145\156
\057\154\145\147\141\115\050\155\164\162\151\061\071\060\067
\006\003\125\004\013\023\060\050\143\051\040\062\060\061\062\040
\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040
\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165
\163\145\040\157\156\154\171\061\063\060\061\006\003\125\004\003
\023\052\105\156\164\162\165\163\164\040\122\157\157\164\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\105\103\061\060\066\060\020
\006\000\075\022\060\010\316\031\075\020\116\060\050\053\201\000\040\002
\003\122\000\004\020\042\023\311\320\272\151\101\173\342\154\320\353
\125\137\146\002\023\044\364\133\211\151\107\343\270\302\175\361
\362\002\030\237\024\036\061\133\235\213\060\011\117\123\020\015
\007\044\047\241\024\037\032\107\031\141\114\175\132\223\047\352
\164\014\357\157\226\011\137\143\354\160\035\066\255\147\167\256
\311\123\174\125\104\072\242\143\121\037\365\343\142\322\245\1107
\007\076\314\040\243\102\069\000\060\016\006\003\125\035\017\000
\001\137\77\004\040\003\002\001\006\060\017\006\003\125\035\023\001
\001\137\77\004\040\005\060\003\010\100\137\006\035\006\003\125\035\016
\004\020\004\024\267\143\347\032\333\215\351\010\246\125\023\0244
\340\152\120\101\114\052\110\22\111\060\012\006\010\052\206\110\316
\075\004\003\030\003\014\077\000\060\144\002\060\141\117\330\345\102
\107\337\032\342\256\123\102\27\266\157\034\175\314\277\022\122\432
\003\121\065\344\215\121\244\121\167\106\336\155\143\357\002\365
\373\265\333\143\376\116\377\036\251\346\247\000\206\013\231\327
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247
\216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270
\231\267\046\101\133\045\140\256\320\110\032\356\006
END

# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d9:01:f9
# Certificate "CFCA EV ROOT"

# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\101\013\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\002\23\006\003\125\004\003\014\014\031\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\101\013\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\002\23\006\003\125\004\003\014\014\031\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_VALUE MULTILINE_OCTAL
\060\02\02\00\05\215\060\202\003\165\240\003\002\001\002\002\004\030
\112\314\326\060\015\006\011\052\206\110\206\367\015\000\010\013
\005\000\060\120\061\013\060\011\006\003\125\004\006\023\002\103
\116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156
\141\140\106\151\156\141\156\143\151\141\154\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\025\060\002\23\006\003\125\004\003\014\014\031\106
\031\010\040\010\126\040\122\117\117\124\060\036\027\015\061\062
\060\070\060\070\060\063\060\067\060\061\132\027\015\062\071\061
\062\063\061\060\063\060\067\060\061\132\060\126\061\130\060\011
\006\060\03\125\004\006\023\002\103\116\061\060\060\056\006\003\125
\004\012\104\047\103\150\151\156\141\040\106\151\156\141\156
\143\151\141\141\164\151\157\156\040\101\165\164\150\157\162
\151\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\125\060\023\006
\003\125\004\003\014\014\031\106\031\010\040\010\126\040\122\117
\117\124\060\02\002\02\042\060\015\006\011\052\206\110\206\367\015
\002\004\030\112\314\326
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184acc6d)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After: Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CLASS cryptoclass CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270\n071\217\204\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\103\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\151\156\143\151\151\154\040\103\114\151\146
\151\143\141\164\151\157\156\040\101\165\157\164\150\157\162\151\164
\171\061\125\060\023\006\003\125\004\003\014\014\03\106\103\101
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "OISTE WISeKey Global Root GB CA"
#
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\20\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\03\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\105\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\017\012\040\010\03\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):

END
# Certificate "$SZAFIR ROOT CA2"

# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid After : Fri Oct 19 07:43:30 2035

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SZAFIR ROOT CA2"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\121\266\044\261\214\261\007\176\211\236\121\236\231
END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
# Certificate "Certum Trusted Network CA 2"

# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL


# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL

# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046

Fingerprint (SHA-256):


# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# CKA_TOKEN CK_BBOOL CK_TRUE

# CKA_PRIVATE CK_BBOOL CK_FALSE

# CKA_MODIFIABLE CK_BBOOL CK_FALSE

# CKA_LABEL UTF8 "Certum Trusted Network CA 2"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL

# CKA_SERIAL_NUMBER MULTILINE_OCTAL

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# CKA_ID UTF8 "0"

# CKA_ISSUER MULTILINE_OCTAL

# CKA_SUBJECT MULTILINE_OCTAL
# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After: Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\0317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\004\313\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\02\12\00\06\10\13\06\01\11\06\03\12\5\00\04\00\06\02\03\02\12\01
\061\142\06\00\04\00\06\03\12\5\00\04\01\2\02\03\11\12\5\15\11\17\2\15
\164\157\04\01\2\04\14\14\13\15\15\15\15\15\15\15\15\15\15\15\15\15\15
\12\0\10\0\15\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0
\145\162\164\165\155\04\01\14\15\16\14\14\14\14\14\14\14\14\14\14\14\14
\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15\15
\04\02\00\00\00\12\5\00\04\00\03\02\03\03\03\14\15\16\16\16\15\15\15\15

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# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352
\051\351\022\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA_ISSUER MULTILINE_OCTAL
\001\014\006\225\246\061\103\001\11\066\003\125\004\006\203\002\107\122
\061\107\060\015\006\003\125\004\007\203\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\12\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
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""Hellenic Academic and Research Institutions ECC RootCA 2015"

# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and
Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
End

""Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA_SUBJECT MULTILINE_OCTAL
# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0 2347

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\066\000\111\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\000\111\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130

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Open Source Used In Crosswork Common EMS Services 4.0.0 2347
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235
\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\140\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\123\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\020\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AC RAIZ FNMT-RCM"
#
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES

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# Not Valid After: Tue Jan 01 00:00:00 2030

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\001\11\006\000\03\125\000\04\006\02\023\002\105\123\061
\021\060\01\17\006\000\03\125\000\04\012\014\010\016\116\115\124\055\122
\103\15\061\013\060\002\07\060\003\125\000\04\013\014\020\010\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\11\006\000\03\125\000\04\006\02\023\002\105\123\061
\021\060\01\17\006\000\03\125\000\04\012\014\010\016\116\115\124\055\122
\103\15\061\013\060\002\07\060\003\125\000\04\013\014\020\010\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\063\032\307\124\204\151
\007
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\02\020\003\153\240\003\002\001\020\002\017\135
\223\215\060\147\066\310\006\063\035\032\307\124\204\151\007\060\015
\006\011\052\206\110\206\367\015\001\010\013\005\000\060\073\061
\013\060\01\11\006\003\125\000\04\006\02\023\002\105\123\061\021\060\017
\006\003\125\000\04\012\014\010\016\116\115\124\055\122\103\115\061
\031\15\060\02\027\060\003\125\000\04\013\014\020\010\103\040\122\101\111
\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070
\061\060\002\07\061\065\065\071\060\066\132\027\015\063\060\060
\061\060\01\16\060\060\060\060\060\060\060\132\060\073\061\013\060\011
\006\003\125\000\04\006\02\023\002\105\123\061\021\060\017\006\003\125
\004\120\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\060\02\020\02\020\02\006\170\000\060
\206\110\206\367\015\001\000\010\005\000\003\20\02\020\017\000\060
\020\02\02\02\02\02\02\00\140\272\161\120\172\142\016\015\177
\31\023\155\030\366\175\034\000\227\217\054\014\033\273\020\232
\100\025\103\026\072\100\370\233\126\152\373\346\173\016\126\123\222
\216\247\045\135\131\02\133\060\065\267\121\027\037\251\010\037
\004\027\044\130\252\067\112\030\337\345\071\124\127\375\032\030
\054\221\001\122\134\042\032\003\030\013\037\167\070\354\217\076
Open Source Used In Crosswork Common EMS Services 4.0.0

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\052\267\053\206\013\151\203\070\276\315\212\056\013\160\255\215
\046\222\356\036\365\001\053\012\333\326\227\233\156\340\250\031
\034\072\041\213\014\036\100\255\003\347\335\146\176\365\271\040
\015\003\350\226\371\202\015\324\071\340\240\000\013\357\230\036
\175\236\147\163\303\232\052\367\253\213\241\072\024\345\064\274
\122\016\211\230\023\200\010\204\035\176\105\151\223\127\316\353
\316\370\120\174\017\034\156\004\103\323\337\132\607\034\030\351
\352\216\322\11\150\06\215\361\073\344\152\12\272\373\043\267\233
\372\231\000\015\032\312\130\132\055\343\371\132\155\016\046\255\301
\156\064\274\062\370\014\005\372\145\243\033\073\067\203\042\351
\326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\371
\033\353\131\144\325\334\137\162\176\040\374\315\211\265\220\047
\115\142\172\077\116\255\035\030\07\137\61\172\364\050\026\337\101
\366\110\200\005\327\017\121\171\254\020\253\324\354\003\146\346
\152\260\272\061\222\012\100\152\276\072\323\162\341\152\067\125
\274\254\035\225\267\151\141\362\103\221\164\346\240\032\012\044
\106\241\010\257\326\332\105\031\122\624\123\035\133\204\171\360
\300\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004
\370\323\311\260\020\045\100\165\376\026\252\311\112\140\206\057
\272\357\006\167\344\124\342\270\204\231\130\200\252\023\213\121
\072\117\110\366\213\266\263
```

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

```
# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\120\005\007\262\025\304\225\142\033\134\225\023\133\102\231
\054\14\054\040
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
END
CKA_ISSUER MULTILINE_OCTAL
```
Open Source Used In Crosswork Common EMS Services 4.0.0  2354

# Certificate "Amazon Root CA 1"
#
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

CKA_SUBJECT MULTILINE_OCTAL
060071060101030600110006000312500040060230002125123061
017060011506000312500040120230061011155141172157156
0610310600270006000312500040030230201011155141172157
156040122157157164040103101040061
END

CKA_ID UTF8 "0"

CKA_ISSUER UTF8 "Amazon Root CA 1"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020230006154237317231277214012071342360170212103
3462260661133312
END
# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Amazon Root CA 1"
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Amazon Root CA 2"
#
# Issuer: CN=Amazon Root CA 2, O=Amazon, C=US
# Subject: CN=Amazon Root CA 2, O=Amazon, C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

<table>
<thead>
<tr>
<th>CKA_CLASS</th>
<th>CK_OBJECT_CLASS</th>
<th>CKO_CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK_A能让</td>
<td>CK_BBOOL</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CK_A能让</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CK_A能让</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CK_A能让</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
</tbody>
</table>

CKA_ID UTF8 "Amazon Root CA 2"

CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\011\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\010\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062

END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\011\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\010\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\000\061\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067

END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\101\060\020\003\051\024\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\060\015\006\001\105\2\061\102\066\367\015\001\001\014\005
\000\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157
\156\061\103\060\027\066\003\125\004\003\023\020\010\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\062\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\132\027\015\064
\060\060\060\065\062\066\060\060\060\060\060\060\132\060\071\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\107\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\103\060\027
\060\060\012\015\004\003\023\020\010\155\141\172\157\157\164\040
\103\101\040\062\060\020\024\020\060\015\006\011\052
\206\110\206\367\015\001\005\000\003\202\002\017\000\060
OPEN SOURCE USED IN CROSSTHICK COMMON EMS SERVICES 4.0.0  2359

# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\345\215\316\250\032\277\332\130\176\135\356\350\053\320\323\312\137\041\020\307\371\363\272\002\012\047\007\305\361\326\307\323
\340\373\011\140\154

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\212\067
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Amazon Root CA 3"
# # Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# # Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# # Not Valid Before: Tue May 26 00:00:00 2015
# # Not Valid After : Sat May 26 00:00:00 2040
# # Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\066\146\077\073\013\232\331\350

Open Source Used In Crosswork Common EMS Services 4.0.0 2360
# Trust for “Amazon Root CA 3”
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\201\351\017\056\052
\377\263\322\156 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207 END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\006\003\125\004\060\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Amazon Root CA 4"
#
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\006\003\125\004\003\023\020\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064 END
CKA_ID UTF8 "0"
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\065\152\151\325\375\211\107\264\315
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\011\164\156\167\157\162\153
\061\105\060\013\063\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\03\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\011\164\156\167\157\162\153
\061\105\060\013\063\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\03\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\01\163\367\264\152\312\320
\363\320
END
CKA_VALUE MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\011\164\156\167\157\162\153
\061\105\060\013\063\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\03\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\023\026\123\171\155\141\156
\151\151\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\023\022\022\022\022\022\022\022\022\022\022\022\022\022
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\023\023\023\023\023\023\023\023\023
END
CKA_ISSUER_MULTILINE_OCTAL
\060\021\224\061\013\060\001\006\000\031\125\004\000\023\002\025\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\151\124\164\151\157\156\061
\037\060\035\000\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\023\022\022\022\022\022\022\022\022\022\022\022\022
CKA_ISSUER_MULTILINE_OCTAL
\060\020\022\024\061\013\060\001\006\000\031\125\004\000\023\002\025\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\151\124\164\151\157\156\061
\037\060\035\000\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\023\022\022\022\022\022\022\022\022\022\022\022
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037

# Certificate

# Subject

END

# Issuer

END
\164\145\143\040\103\154\141\163\163\040\163\040\062\204\012\016\142\154
\151\143\040\120\162\151\115\141\162\171\040\010\135\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\144
\202\236\374\067\036\164\135\374\227\377\227\310\261
\015\006\011\052\206\110\206\367\015\001\001\001\005\000\060\201
\224\060\130\060\011\060\003\125\004\006\023\002\125\123\061\035
\060\033\000\060\033\125\004\041\012\023\024\123\171\155\141\156\164\145
\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060
\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145
\140\041\124\162\165\163\164\011\165\164\164\167\161\162\153\061\105
\060\103\060\003\125\004\003\023\074\123\171\155\141\156\164\145
\143\040\103\154\141\163\163\040\062\040\120\165\142\154\151\143
\040\121\162\151\155\141\162\171\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\005\55\040\107\066\060\063\062\075\150\061\061\060\060\060\060\070\060
\060\060\060\060\060\060\132\027\015\063\067\061\062\060\060\062\063
\065\071\065\071\132\060\020\112\240\061\013\060\011\006\003\125\004
\060\063\002\125\123\061\035\060\060\033\006\003\125\004\001\120\230\024
\123\171\155\141\156\164\145\143\040\103\157\162\160\157\162\141
\164\151\156\156\161\037\060\035\003\125\004\013\023\026\123
\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145
\164\167\157\162\153\061\105\060\103\060\003\125\004\003\023\074
\123\171\155\141\156\164\145\143\040\103\154\141\163\163\030\060
\040\120\165\142\154\141\143\040\120\162\151\155\141\162\171\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165
\164\151\156\162\151\164\170\040\155\040\017\066\060\020\020\010\142
\060\015\000\060\110\052\206\110\206\367\015\001\001\001\005\000\003
\20\020\010\170\000\060\202\001\012\002\202\001\010\000\135\134\351
\005\310\143\205\313\137\077\100\143\027\275\030\372\065\346\004\147
\127\145\230\051\124\117\311\113\421\017\064\322\370\033\250\023
\142\252\270\036\120\147\170\260\260\114\240\071\251\025\172\256
\353\352\242\242\300\360\226\067\05\103\046\134\350\015\074\266\154
\111\077\301\134\033\343\131\132\266\024\031\013\246\123\226\341\326
\011\134\031\046\034\371\037\145\113\137\103\132\103\034\000\203\326
\320\252\112\142\324\333\346\142\070\272\121\020\024\031\155\371\106
\137\012\026\026\331\070\002\221\131\173\533\154\335\273\071\011\162\311\341
\060\147\105\361\132\346\360\215\030\337\136\362\070\007\044\175\000
\136\126\042\263\334\140\027\221\105\323\425\133\004\162\172\126
\050\331\116\225\005\040\107\104\525\113\003\152\040\020\134\136
\360\053\132\065\054\132\037\232\227\116\360\202\113\053\130\137
\066\243\013\055\257\143\015\035\045\177\241\156\134\142\241\1215
\050\076\241\1374\034\040\370\001\057\272\125\232\021\260\031\322
\310\120\171\153\016\152\005\327\252\004\066\262\243\362\341\137
\167\247\167\234\345\063\334\351\317\152\301\145\135\002\003\001
\000\001\024\312\026\060\100\060\016\060\031\253\035\017\001\001\0137
\004\004\003\002\000\016\060\017\006\003\031\253\035\023\001\001\0137
\004\005\060\003\001\0137\077\060\035\006\003\012\253\035\016\004\026
\004\004\027\140\040\022\310\230\112\321\326\200\061\112\220\064
\104\337\034\115\277\260\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\320\001\010\000\020\116\262\245\146\226
\267\041\124\256\335\157\043\132\173\333\010\305\102\245\170\301
\151\137\364\074\327\71\134\153\160\162\032\374\132\227\115\000
\200\210\210\202\121\303\161\015\216\305\211\233\054\355\215\013
\322\162\124\365\175\324\134\013\127\351\136\256\245\002\021\366
\166\053\201\127\335\175\333\216\460\375\124\107\366\340\002\61\156
\246\264\012\110\346\347\165\007\017\051\031\071\136\171\364\266
\154\305\137\231\325\037\111\372\337\155\054\074\015\124\200\160
\360\210\013\200\173\306\150\242\270\035\160\331\166\214\374\356
\245\311\317\255\035\317\231\045\127\312\142\105\313\026\153\275
\111\155\245\243\214\115\170\045\256\270\114\154\213\100\146\113
\026\077\317\002\032\335\341\154\153\007\141\152\166\025\051\231
\177\033\335\210\200\030\127\277\265\217\163\305\246\226\043\204\426
\050\206\040\046\315\250\016\056\127\163\045\266\136\277\217\346\035
\141\250\100\051\147\035\207\233\035\177\233\237\231\135\061\1326
\124\276\142\273\071\254\150\022\110\221\040\245\313\261\335\376
\157\374\132\044\202\125\131\257\061\251
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0 2370
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302
\121\324\035\217
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\130\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\024\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\020\162\151\155\141\162\171\140\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After: Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\224074\2523001101\302243\235120032\30034443031042374263
\002030010000012432020010100506020010010600170006
\0031253050230010013377004050600030010013377060035
\006003125035016004026006040240777220310175307025157
\363044217253030571132420170411262057347060016006
\0031253050170010013377004040030302001006060201276
\00600312503503700420126606020126306016424016240
\1602061561541441411600720570571441511621451433164
\1571621710561440555164162165163164056156145164057
\103116075104055124122125123124045062060122157157
\164045062060103101045062060630545062060620606061
\0630541170751040551241621651631640450620601071155
\14211005410307511041050771431451621641511461151143
\141116145162145166157143141614151571561541151163
\1640600732400071240067206065150164164160072057057
\1431621540561440555164162165163164056156145164057
\1431621540571440555164162165163164137162157157164
\137144134113706311370620600610630561431362154060015
\006091105220611020636701500100010113005000003202001
\0010000161131061303441164110043104317064041265234
\024032522512113267263210155134251027160360052237
\21517337117320537203071350200101260065053137317
\0020223323431010013036536005124256067223004011175
\1542173021642743700343224276061001100055363044040
\26762041250541343310365164112520031213243307355065
\326201111032301630027207125026010600226033306210
\13113202763741732161053131717614232071252263140011157
\2321470412250652133370203741610332671113067151246
\0733263542133563102603631045311217222175241352303
\312104277046245164222234334163532351643331313115
\207330374246151154213240103007140170227351331223
\174302106274233067122243355212074023251173123113
\111232201050540131561262540370562021543401115147
\26501611505333143430025361077372030126341025155
\0471331055060050053237110232144053231357362165111
\1371134

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (Oxfdacac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170\337\157\357\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\042\146\230\176\326\003\340\301\161\346\165\126\105\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012\001\140\140\055\012\162\165\163\164\040\107\155\142\110\061\037\060\003\50\003\125\004\006\003\125\004\003\014\026\003\055\124\122\125\123\124\040\122\157\157\164\040\103\101\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1, OU=Kamu Sertifikasyon Merkezi - Kamu SM, O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK, L=Gebze - Kocaeli, C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1, OU=Kamu Sertifikasyon Merkezi - Kamu SM, O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK, L=Gebze - Kocaeli, C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
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\046\025\234\176\010\123\212\130\215\320\113\050\337\301\263\337
\040\036\3371\343\343\072\3373\142\234\224\330\116\117\303\153\302
\267\367\162\350\255\146\063\265\054\123\253\340\370\114\252\235
\373\362\015\272\256\131\252\306\153\371\223\273\256\253\3270
\227\074\003\032\227\213\306\226\271\105\162\070\263\247\241\226
\075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223
\325\042\245\015\212\361\223\016\076\124\016\260\330\311\116\334
\362\061\062\126\352\144\371\352\265\235\026\146\102\162\236\331\177
\323\261\061\103\374\244\216\027\361\155\043\253\224\146\370\255
\373\017\010\156\046\055\177\027\007\011\262\214\373\120\300\237
\226\215\317\266\375\000\235\132\024\232\277\002\104\365\301\313\202
\237\042\136\242\017\241\343

END

CKA_NSS_Mozilla_CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1”
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1”
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\316\047\354\355\072\077\013\217\015\344\350
\221\353\356\312
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\134\151\057\076\057\260\073\366\075\132\221\216\111
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\100\060\206\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\012\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
End

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GDCA TrustAUTH R5 ROOT"
#
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD." ,C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD." ,C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_ISSUER MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\057\160\314\164\264
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\02\010\070\133\201\032\057\160\314\164\264
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Certificate "TrustCor RootCert CA-1"

Issuer: CN=TrustCor RootCert CA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA

Serial Number: 00:da:9b:ec:71:f3:03:00:19

Subject: CN=TrustCor RootCert CA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA

Not Valid Before: Thu Feb 04 12:32:16 2016

Fingerprint (SHA-256):

Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):

CKA_CLASS CHIP_OBJECT_CLASS CHIPO_NSS_TRUST
CKA_TOKEN CHIP_BBOOL CHIP_TRUE
CKA_PRIVATE CHIP_BBOOL CHIP_FALSE
CKA_MODIFIABLE CHIP_BBOOL CHIP_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERT_SHA1_HASH CHIP_OCTAL
CKA_CERT_MD5_HASH CHIP_OCTAL
\156\205\361\334\032\000\332\042\325\262\262\254\153\067\005\105
END
CKA_ISSUER MULTILINE_OCTAL
\060\021\244\061\013\060\011\006\003\012\000\006\023\002\120\010
\061\017\060\015\060\033\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\012\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\000\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\104\7\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\033\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\010\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\363\003\260\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "TrustCor RootCert CA-2"
#
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\124\061\013\060\011\006\003\125\004\006\023\002\120\010
\061\017\060\015\060\033\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\000\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\104\7\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\033\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\010\055\061
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\300
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\325\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\130\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\131\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Pana
City,ST=Pana,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Pana
City,ST=Pana,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:97:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204 \013\310\170\275 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154 END

CKA_ISSUER MULTILINE_OCTAL
\060\021\234\061\013\060\011\006\003\125\004\006\023\002\120\101 \061\017\060\015\006\003\125\004\014\006\120\141\156\141\155 \141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141 \151\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012 \014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145 \155\163\040\123\056\040\014\145\040\122\056\114\056\061\047\060 \045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162 \040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014 \016\124\162\165\163\164\103\157\162\040\105\165\164 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "SSL.com Root Certification Authority RSA"

# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\332\026\020\062\231

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\335\060\202\003\005\240\003\002\001\002\002\010\173
\054\233\332\026\020\062\231\060\015\006\011\052\206\110\206\367
\15\001\001\013\005\000\060\174\061\013\060\011\060\003\125\004
\006\023\002\125\123\061\016\060\014\060\003\125\004\010\014\005
\124\145\170\141\163\061\020\060\016\060\003\125\004\007\014\007

END
\023\040\224\126\012\116\054\154\116\261\137\317\234\011\272\242
\063\355\207\002\003\001\000\001\243\140\360\141\060\035\006\003
\125\035\016\004\022\043\335\040\011\007\242\365\172\175\122
\123\022\222\225\356\070\200\045\015\246\63\131\060\017\006\003\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\006\003
\125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172
\175\122\123\022\222\225\356\070\200\045\015\246\131\060\016\006
\003\125\035\017\000\010\137\004\004\003\003\002\012\060\015\006
\011\052\060\11\020\367\015\001\010\013\005\000\003\020\022\001
\000\040\030\021\224\051\373\046\235\034\036\036\160\141\361\225
\162\223\161\044\255\15\223\130\016\062\257\033\263\160\033\374
\045\053\016\205\220\075\170\152\364\271\123\245\227\073\265\030
\122\173\036\247\371\100\133\221\127\121\257\036\021\320\134
\035\024\146\043\261\122\007\014\062\071\124\365\232\030\171\330
\035\023\160\010\043\312\233\350\037\122\257\032\212\070\037\0001
\205\024\107\247\075\016\062\262\274\345\042\215\036\173\234\330\054
\076\060\12\041\310\055\063\325\247\170\230\164\320\116\151\161
\305\025\267\261\360\043\015\036\243\253\153\374\031\143\235\243\274\004
\130\060\030\013\045\273\123\211\10\17\263\200\120\336\105\356\104\177
\253\022\170\144\230\323\366\050\035\335\207\330\160\145\164\373\016
\271\011\235\323\247\017\141\251\062\226\314\363\267\355\143\114\030
\273\251\100\367\240\124\156\040\210\161\165\030\352\172\264\064
\162\340\043\047\167\144\262\220\352\206\045\100\253\357\063\017
\313\023\170\226\276\242\040\373\366\265\055\032\346\302\020\256\1164
\017\373\310\145\002\244\122\001\110\335\111\042\301\277\330\353
\153\254\176\363\354\143\063\025\267\043\010\217\036\017\215\101
\132\233\216\035\271\173\345\105\077\170\033\272\322\033\100\261
\376\161\115\077\340\021\242\272\136\264\354\025\340\223\335\010
\037\176\341\112\253\210\034\136\223\236\012\373\346\243\111\275
\066\060\376\347\167\262\240\165\227\265\055\201\120\027\145\040
\367\332\220\000\023\373\111\222\314\062\321\206\174\365\075\017\330
\053\327\365\046\154\311\006\064\226\026\352\160\131\032\062\171
\171\013\266\210\177\017\112\110\075\277\154\330\242\104\056\321
\116\267\162\130\323\211\023\225\376\014\253\370\327\213\033\156
\234\274\054\240\133\325\152\000\257\137\076\341\132\372\020\013
\230\202\240\063\046\217\316\360\354\156\212\127\013\200\343\116
\262\300\240\143\141\220\272\125\150\067\164\151\256\266\222\333\237
\241\026\042\260\145\047\016\354\266\237\102\140\344\147\302\265
\332\101\013\034\323\213\141\033\274\372\037\122\053\327\104\007
\136\327\052\154\331\035\053\157\123\110\322\353\100\356\105\013
\041\315\260\000\012\353\047\077\123\220\160\251\000\036\127\047
\271
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority RSA"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\130\002\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\130\002\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\165\346\337\313\301\150\133\250
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\215\060\202\002\242\240\003\002\000\002\002\010\165
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075
\004\003\002\060\174\061\101\130\011\006\003\125\004\006\023\002
\125\013\061\106\006\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\102\060\016\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “SSL.com Root Certification Authority ECC”
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\343\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\13\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\14\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\060\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\10\16\060\14\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\16\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\161\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

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\103\005\302\145\071\050\030\002\303\202\262\235\005\276\145\355
\226\137\145\164\074\373\011\065\056\173\234\023\375\033\017\135
\307\155\201\072\126\017\314\073\341\255\002\057\042\254\106\312
\106\074\240\034\114\326\104\264\136\056\143\025\146\011\341\046
\051\137\306\122\214\272\261\163\377\303\014\234\345\154\152\224
\077\242\312\100\002\262\225\204\363\131\251\125\137\114\141\223\155
\321\073\314\242\225\014\042\246\147\147\104\056\271\133\1\322\212
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203
\224\056\321\077\337\222\267\221\257\005\073\145\307\240\154\261
\315\142\022\303\220\033\343\045\316\064\274\157\167\166\261\102
\303\367\005\302\300\326\257\164\142\110\027\167\222\151\220\141
\034\336\225\020\164\142\170\030\034\303\363\003\320\277\244\103
\165\206\123\030\172\012\056\011\034\066\237\221\375\202\212\042
\113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065
\115\212\213\355\360\002\222\146\054\104\177\313\225\047\226\027
\255\011\060\254\266\161\027\156\213\027\366\034\011\324\055\073
\230\245\161\323\124\023\331\140\363\365\113\146\117\372\236\1356
\040\022\215\264\254\127\261\105\143\241\254\166\251\130\237
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\060\003\125\004\060\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\016\03\006\02\006\003\125\004\012\014\017\123\123\114
\040\010\157\162\160\157\162\14\11\164\151\157\156\061\016\006\003\125\004\003\014\056\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\04\10\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "SSL.com EV Root Certification Authority ECC"
#
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\017\060\000\011\000\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\055\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\03\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\14\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\113\145\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\04\10\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\055\124\145\170\141\163\061

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# Trust for "SSL.com EV Root Certification Authority ECC"

- Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
- Serial Number: 2c:29:9c:5b:16:ed:05:95
- Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
- Not Valid After : Tue Feb 12 18:15:23 2041

## Certificate Details

- **CA_CLASS**: CK_OBJECT_CLASS CKO_NSS_TRUST
- **CA_TOKEN**: CK_BBOOL CK_TRUE
- **CA_PRIVATE**: CK_BBOOL CK_FALSE
- **CA_MODIFIABLE**: CK_BBOOL CK_FALSE
- **CA_LABEL**: UTF8 "SSL.com EV Root Certification Authority ECC"
- **CA_CERT_SHA1_HASH**: Multiple OCTAL values
- **CA_CERT_MD5_HASH**: Multiple OCTAL values
- **CA_ISSUER**: Multiple OCTAL values
- **CA_SERIAL_NUMBER**: Multiple OCTAL values
- **CA_TRUST_SERVER_AUTH**: CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
- **CA_TRUST_EMAIL_PROTECTION**: CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After: Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

END

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

CKA_SUBJECT MULTILINE_OCTAL

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "OISTE WISeKey Global Root GC CA"

# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042

```bash
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
```
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISEKey Global Root GC CA"
# Issuer: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Serial Number:21:2a:56:00:ae:da:0c:ab:40:45:bf:2b:a2:2d:3a:ea
# Subject: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISEKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\123\366\026\046\321\226\037\303\271\061
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\132\267\105\057\223\144\370\245\151\132\221\351\150\007\043
END

CKA_ISSUER MULTILINE_OCTAL
\060\155\061\13\060\11\060\00\13\125\00\4\06\02\03\02\103\110\061
\020\060\01\06\00\03\125\00\4\01\23\00\7\127\11\123\145\113\145
\171\061\042\06\00\06\00\03\125\00\4\01\30\23\03\117\111\123\124
\105\040\106\157\165\156\144\114\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\06\00\03\125\00\4\003\023\037
\117\111\123\124\05\04\127\11\123\145\113\145\171\040\107\1154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\203\02\126\01\256\332\01\4\253\100\105\277\053\242\055
\072\352
END
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# Certificate "UCA Global G2 Root"
#
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After: Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):

CA_CLASS CK_OBJECT_CLASS
CKA_TOKEN CK_BBOOL
CKA_PRIVATE CK_BBOOL
CKA_MODIFIABLE CK_BBOOL
CKA_LABEL UTF8 "UCA Global G2 Root"

CAK_CLASS_TYPE CK_CERTIFICATE

CAK_SUBJECT_MULTILINE_OCTAL
\060\075\061\013\060\010\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\013\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END

CAK_ID.UTF8 "0"

CAK_ISSUER_MULTILINE_OCTAL
\060\075\061\013\060\010\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\013\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END

CAK_SERIAL_NUMBER MULTILINE_OCTAL
\002\135\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357
END

CAK_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\03\056\240\003\002\001\002\002\020\135
\337\261\332\132\243\355\135\276\132\145\040\145\003
\220\357\060
\015\006\011\052\206\110\206\367\150\01\001\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\060\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\033\060\031\006\003\125\004\003\014\022\125\103\104\100\107
\154\157\142\141\154\040\107\062\040\122\157\157\164
\015\061\066\060\063\061\061\060\060\060\060\060\060\060\060\060\0132\027\015
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"

# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
# Certificate "UCA Extended Validation Root"

# Issuer: CN=UCA Extended Validation Root, O=UniTrust, C=CN
# Subject: CN=UCA Extended Validation Root, O=UniTrust, C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After: Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\066\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):

cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "UCA Extended Validation Root"

cka_cert_sha1_hash MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377

cka_cert_md5_hash MULTILINE_OCTAL
\241\363\137\103\064\064\233\327\214\176\005\123\255\226\342

cka_issuer MULTILINE_OCTAL
\060\010\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164

cka_serial_number MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140

cka_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE

# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\001\110\006\000\125\004\006\023\002\106\122\061
\022\060\002\060\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\060\060\061\031\060\027\060\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\001\110\006\000\125\004\006\023\002\106\122\061
\022\060\002\060\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\060\060\061\031\060\027\060\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\133\060\202\004\103\240\003\022\001\002\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\367\015\001\001\130\005\000\060
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\060\060\061\031\060\027\060\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_VALUE_MULTILINE_OCTAL
\060\202\006\133\060\202\004\103\240\003\022\001\002\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\367\015\001\001\130\005\000\060
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\003\125\004\013\014\023\060\060
\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\010\060\002\070\006\003\125\004\003\014\020\013\145\162\164\151
\147\156\141\040\012\157\157\164\040\103\101\010\060\036\027\015\061
\063\061\010\060\006\061\060\070\063\062\062\067\132\027\015\063\063
\061\010\060\006\061\060\070\063\062\062\067\132\027\015\063\063
\061\010\060\006\061\060\070\063\062\062\067\132\027\015\063\063
\011\010\060\003\125\004\006\023\002\106\122\061\022\060\020\006\003
\125\004\012\014\011\104\150\151\155\171\157\164\151\163\061\034
\060\032\006\003\125\004\013\014\023\060\060\060\062\040\064\070
END

# Trust for “Certigna Root CA”
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After: Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
\047\047\365\103 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167 END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\11\006\003\125\004\006\023\002\106\122\061
\022\060\120\006\003\125\004\012\141\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\060\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\106\106\066\063\060\070\061\106\060\060\060\1063
\060\061\031\060\027\006\003\125\004\003\140\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\032\135\033\211\136\125\003\105\243\346\101\155\304
\134\024\341 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign Root CA - G1"
#
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\131\103\060\003\125\004\006\023\002\111\116\061\023\060\021\010\003\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147\151\154\147\156\040\122\157\157\164\040\013\010\040\055\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\131\103\060\011\006\003\125\004\006\023\002\111\116\061\023\060\021\103\000\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147\151\154\147\156\040\122\157\157\164\040\013\010\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110\206\367\015\001\001\030\005\000\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061\023\060\021\002\060\033\125\004\040\13
\023\012\145\155\152\133\151\147\156\040\120\011\13\11\061\045\060\043\006\003\125\004\006\023\002\111\116\061\023\060\021\002\060\033\125\004\040\13
\006\060\033\125\004\012\023\034\145\151\165\144\150\162\141\040\140\040\124\145\143\150\156\157\154\157\147\151\154\147\156\040\122\157\157\164\040\013\010\040\055\040\107
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060\106\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116
\125\004\006\023\002\111\116\061\023\060\021\002\060\033\125\004\040\13
\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164\040\013\010\040\055\040\107
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116
\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164\040\013\010\040\055\040\107
\061\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060
\132\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116
\164\145\144\061\034\060\032\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157
\066\003\125\004\000\032\023\145\155\123\151\147\156\040\122\157
\000\000\125\004\000\032\023\145\155\123\151\147\156\040\122\157
\000\000\125\004\000\032\023\145\155\123\151\147\156\040\122\157
\000\000\125\004\000\032\023\145\155\123\151\147\156\040\122\157
\000\000\125\004\000\032\023\145\155\123\151\147\156\040\122\157
\125\004\000\032\023\145\155\123\151\147\156\040\122\157
\017\000\060\020\001\012\002\020\010\000\000\002\022\013\273\351\146
\121\356\1235\133\325\064\223\320\033\036\033\347\236\270\144\063


```bash
\177\143\170\150\264\315\056\161\165\327\233\040\306\115\051\274\266\150\140\212\367\041\232\126\065\132\363\166\275\330\315\232\377\223\126\113\245\131\006\241\223\064\051\335\026\064\165\116\362\201\264\307\226\116\255\031\025\122\112\376\074\160\165\160\315\257\053\253\025\23\260\063\074\252\263\213\252\315\103\375\365\352\160\377\355\317\021\073\224\316\116\064\010\136\024\167\263\257\074\001\054\154\355\231\054\213\331\116\151\123\026\367\217\101\260\062\170\141\326\015\137\303\372\242\267\302\014\342\253\244\070\114\265\071\065\157\352\003\151\372\072\124\150\205\155\326\362\057\103\125\036\221\015\016\330\032\325\152\244\262\321\023\074\054\170\120\350\072\222\322\027\126\345\065\032\100\034\076\215\050\435\071\133\102\340\203\101\164\337\243\131\302\206\140\110\150\343\151\101\124\000\213\344\166\151\041\015\171\116\064\010\136\024\302\314\261\262\255\327\174\160\212\307\205\002\003\000\000\001\243\102\060\100\060\035\006\003\125\035\016\004\026\000\040\243\373\357\015\206\236\260\034\333\355\251\271\363\014\027\177\076\373\436\06\176\073\032\060\016\006\003\125\035\170\001\000\137\000\040\004\003\002\000\100\060\001\176\000\031\125\035\023\001\000\137\000\040\005\060\003\000\100\011\177\000\060\015\006\011\052\206\011\020\063\367\015\001\001\013\030\055\002\003\201\001\000\031\177\373\262\214\365\207\175\161\075\243\237\033\133\331\132\323\370\032\234\153\066\275\233\251\141\353\336\026\054\164\075\236\346\165\332\327\272\247\274\102\027\347\075\221\353\345\175\333\076\234\361\137\222\254\154\110\314\302\042\077\151\073\305\266\025\057\243\065\306\150\052\034\127\257\071\135\215\320\065\353\030\030\141\173\000\126\034\315\213\031\164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\023\35\030\026\010\030\011\106\356\140\340\176\266\304\111\004\121\117\160\140\024\274\252\262\377\171\162\172\246\035\075\137\052\370\312\342\237\071\267\107\271\353\176\337\004\043\257\372\233\066\007\351\173\134\232\000\100\265\306\154\012\061\050\316\014\237\317\263\043\065\200\101\215\154\304\067\173\201\057\200\241\100\102\205\351\331\070\215\350\241\123\315\001\277\151\350\132\006\362\105\013\220\237\256\341\277\235\362\256\127\074\245\256\262\126\136\213\145\100\351\375\061\201\054\364\071\011\133\035\153\247\173\246\035\050\254\230\367\001\120\330\205\175\363\121\134\161\120\336\272\314\037\020\176\012

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
```
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254
END

CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\23\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign ECC Root CA - G3"
#
# Issuer: CN=eSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=eSign PKI,C=IN
# Subject: CN=eSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=eSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td># Trust for &quot;emSign ECC Root CA - G3&quot;</td>
<td></td>
</tr>
<tr>
<td># Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN</td>
<td></td>
</tr>
<tr>
<td># Serial Number: 3c:f6:07:68:70:0:da:8b:84</td>
<td></td>
</tr>
<tr>
<td># Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN</td>
<td></td>
</tr>
<tr>
<td># Not Valid Before: Sun Feb 18 18:30:00 2018</td>
<td></td>
</tr>
<tr>
<td># Not Valid After : Wed Feb 18 18:30:00 2043</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
<td></td>
</tr>
<tr>
<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_LABEL UTF8 &quot;emSign ECC Root CA - G3&quot;</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ISSUER MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_NSS_ISSUER MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>

---

Open Source Used In Crosswork Common EMS Services 4.0.0 2427
Open Source Used In Crosswork Common EMS Services 4.0.0
# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\104\012\011\11\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\11\11\156\143\061\040\060\036\060\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\013\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\104\012\011\11\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\11\11\156\143\061\040\060\036\060\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\013\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\02\126\270\02\22\174\234\250
END

CKA_VALUE MULTILINE_OCTAL
\060\02\00\02\053\060\02\00\01\261\240\003\002\001\002\002\012\173
\161\266\202\126\270\02\22\174\234\250\060\012\006\010\052\206\110
\316\075\004\003\030\060\132\061\013\060\011\006\003\125\004\006
\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\11\11\11\061\024\060\022\006\003\125
\004\012\023\013\145\115\165\144\150\162\141\040\11\11\156\143\061\040\060\036\060\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\013\063
END
\x0601132\x027\x015\x0164\x063\x060\x062\x060\x061\x070\x061\x070\x061\x070\x063\x060\x060\x060
\x132\x060\x132\x061\x103\x060\x011\x006\x003\x125\x004\x006\x023\x002\x125\x123
\x061\023\x060\x021\x006\x003\x125\x004\x013\x023\x012\x145\x155\x123\x151\x147
\x156\x040\x120\x113\x111\x061\x024\x060\x022\x006\x003\x125\x004\x014\x023\x013
\x145\x115\x165\x144\x150\x162\x141\x040\x111\x156\x143\x061\x040\x060\x036\x006
\x003\x125\x004\x003\x023\x027\x145\x155\x123\x151\x147\x156\x040\x105\x103\x103
\x040\x122\x157\x157\x164\x040\x103\x101\x104\x055\x040\x103\x063\x060\x166\x060
\x020\x006\x007\x052\x026\x061\x103\x166\x075\x002\x001\x060\x005\x053\x120\x010\x004\x000
\x042\x003\x142\x000\x004\x037\x254\x141\x125\x173\x046\x020\x035\x351\x126\x70\x042
\x060\x256\x006\x364\x201\x263\x261\x102\x161\x122\x571\x124\x312\x343\x257
\x257\x371\x362\x227\x065\x222\x066\x106\x162\x072\x225\x215\x271\x107\x111\x323\x351
\x273\x337\x320\x376\x310\x100\x71\x107\x427\x312\x157\x203\x243\x152\x373\x142
\x260\x201\x211\x100\x216\x017\x151\x110\x305\x112\x343\x351\x104\x124\x021\x152\x223
\x273\x102\x142\x571\x167\x234\x043\x246\x175\x327\x141\x021\x316\x145\x307\x370
\x177\x376\x365\x362\x251\x243\x102\x060\x100\x060\x035\x006\x003\x125\x035\x016
\x004\x026\x004\x024\x373\x132\x110\x320\x200\x040\x100\x362\x250\x351\x100\x007
\x151\x031\x167\x247\x346\x303\x364\x317\x060\x016\x060\x003\x125\x035\x017\x001
\x001\x377\x004\x000\x003\x002\x000\x100\x006\x000\x17\x006\x003\x125\x035\x023\x001
\x001\x377\x004\x000\x056\x000\x003\x001\x137\x706\x001\x12\x006\x010\x005\x206\x110
\x316\x075\x004\x003\x003\x015\x000\x006\x145\x000\x261\x001\x264\x330\x57
\x002\x221\x117\x352\x142\x272\x103\x116\x023\x204\x162\x265\x256\x335\x034
\x336\x326\x265\x334\x126\x217\x130\x100\x132\x055\x336\x040\x114\x042\x203\x312
\x223\x250\x176\x356\x022\x100\x307\x326\x207\x117\x370\x337\x205\x002\x060\x034
\x024\x144\x344\x174\x226\x203\x201\x234\x260\x321\x132\x141\x113\x246\x017\x111
\x323\x000\x374\x241\x374\x344\x245\x377\x177\x255\x327\x060\x320\x307\x167\x177
\x276\x201\x007\x125\x060\x120\x040\x024\x365\x127\x070\x012\x250\x061\x121
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:7b:71:b6:82:56:b8:12:7c:9a8
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\x0260257\x103\x302\x233\x201\x123\x175\x366\x357\x153\x303\x037\x37\x140\x025
\x014\x356\x110\x146
END  
CKA_CERT_MD5_HASH MULTILINE_OCTAL  
\076\123\263\243\201\356\327\020\370\032\260\035\027\222\365\325  
END  
CKA_ISSUER MULTILINE_OCTAL  
\060\132\061\013\060\001\11\006\003\125\004\006\023\002\125\123\061  
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156  
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145  
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003  
\125\004\003\023\020\174\155\123\151\147\156\040\105\103\103\040  
\122\157\157\164\040\103\101\040\055\040\103\063  
END  
CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\012\173\161\266\202\126\270\022\174\234\250  
END  
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR  
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR  
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST  
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE  
#  
# Certificate "Hongkong Post Root CA 3"  
#  
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK  
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK  
# Not Valid Before: Sat Jun 03 02:29:46 2017  
# Not Valid After: Tue Jun 03 02:29:46 2042  
# Fingerprint (SHA-256):  
CKA_CLASS CK_OBJECT_CLASS CKC_X_509  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "Hongkong Post Root CA 3"  
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509  
CKA_SUBJECT MULTILINE_OCTAL  
\060\157\061\013\060\001\11\006\003\125\004\006\023\002\110\113\061  
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113  
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157  
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012  
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061  
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157  
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040  
\063  
END  
CKA_ID UTF8 "0"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After: Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\301\363\370\144\002\044\116\302
\216\002\113\002

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\002\212\375\077\363\130\271\131\040\360

END

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\103\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\002\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
# Certificate "Entrust Root Certification Authority - G4"
#
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 00:d9:b5:43:7f:fa:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\024\010\212\114\245\354\000\311\122\100\337\304\306\256\043\270\034\132\244
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\060\003\125\004\012\023\015\105\156\164\162\165\163\164\054\040\111\115\161\130\056\061\050\060\046\060\003\125\004\013\023\060\050\143\051\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060\006\003\125\004\030\023\051\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060\006\003\125\004\030\023\051\105\156\164\162\165\163\164\054\040\111
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\060\003\125\004\012\023\015\105\156\164\162\165
Open Source Used In Crosswork Common EMS Services 4.0.0

# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL \211\123\361\203\043\267\174\216\005\361\121\161\070\116\037\210
END
# Certificate "Microsoft ECC Root Certificate Authority 2017"

# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US

# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US

# Not Valid Before: Wed Dec 18 23:06:45 2019

# Not Valid After: Fri Jul 18 23:16:04 2042

# Fingerprint (SHA-256):


# CK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# CK_TOKEN CK_BBOOL CK_TRUE

# CK_PRIVATE CK_BBOOL CK_FALSE

# CKMODIFIABLE CK_BBOOL CK_FALSE

# CK_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"

# CK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# CK_TOKEN CK_BBOOL CK_TRUE

# CK_PRIVATE CK_BBOOL CK_FALSE

# CKMODIFIABLE CK_BBOOL CK_FALSE

# CK_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
Open Source Used In Crosswork Common EMS Services 4.0.0  2442

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Microsoft RSA Root Certificate Authority 2017"

# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263

END

CKA_VALUE MULTILINE_OCTAL
\060\145\061\101\030\001\11\100\003\125\004\006\023\002\125\123\061
\036\060\034\000\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\214\164\151\157\156\061
\066\060\064\000\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\101\030\001\11\100\003\125\004\006\023\002\125\123\061
\036\060\034\000\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\214\164\151\157\156\061
\066\060\064\000\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\101\030\001\11\100\003\125\004\006\023\002\125\123\061
\036\060\034\000\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\214\164\151\157\156\061
\066\060\064\000\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263

END

CKA_ID UTF8 "0"
\000\001\243\124\060\122\060\016\006\003\125\035\017\001\001\377
\004\004\003\002\000\126\060\017\006\003\125\035\023\001\001\377
\004\005\060\003\000\010\137\070\035\006\003\125\035\016\004\026
\004\024\011\313\131\177\206\262\160\217\032\030\071\343\300\331
\351\127\273\115\262\043\060\020\006\011\053\006\001\004\001\202
\067\025\001\000\032\002\001\000\006\060\015\006\011\052\206\110\206
\367\015\001\001\140\055\000\003\202\002\001\000\254\257\076\135
\302\021\226\111\126\243\347\222\326\227\205\270\023\242\246\102
\056\002\315\026\005\131\047\312\040\350\272\270\350\032\354\115
\125\022\7\126\256\145\103\326\127\000\233\122\315\125\315\123\071
\155\142\114\213\015\133\174\056\104\277\023\020\217\363\123\202
\200\033\117\072\307\156\021\077\346\343\026\221\204\373\155\204
\177\064\164\255\211\247\316\271\132\272\237\204\144\222\276\225
\241\255\011\112\236\063\335\356\012\352\112\121\126\157\125\253\272
\265\224\106\256\214\177\330\242\120\045\145\140\200\106\333\063
\004\256\154\265\230\164\124\045\334\223\344\370\034\125\025\075
\127\015\330\012\244\022\301\151\205\156\337\144\361\123\231\341
\112\165\040\235\225\017\344\326\334\003\361\111\030\350\107\211
\126\212\7\132\224\266\251\330\027\053\027\11\345\166\333\011\26
\231\072\067\261\377\151\054\221\221\233\341\337\114\243\067\166
\115\241\237\370\155\036\035\323\327\354\373\364\105\035\023\155
\131\376\131\345\042\047\162\053\026\363\127\273\060\355\044\115
\334\175\126\273\243\263\370\064\171\211\130\340\362\002\141\367
\126\374\172\273\034\207\103\256\103\331\174\275\047\243\375\056
\072\321\223\224\266\216\363\035\044\213\257\113\040\211\255\267\147
\146\171\365\072\306\246\226\063\376\123\222\310\106\261\021\221
\306\231\177\217\311\132\261\146\010\010\120\207\055\014\326\301
\257\104\203\030\121\144\020\337\023\127\321\130\360\074\172\214\245
\301\133\525\040\124\161\130\123\147\161\102\222\352\172\170\021\151
\031\144\231\043\126\373\254\052\056\160\207\256\146\304\014\204\357
\345\213\363\232\001\170\152\220\223\147\132\162\150\243\265\142
\121\735\107\214\172\073\136\017\347\214\270\036\174\357\067\375
\164\342\310\117\063\162\341\224\071\155\275\022\257\276\014\116
\160\174\033\151\215\263\062\223\163\040\026\153\350\364\367\340
\225\200\217\262\135\070\244\364\253\336\012\060\020\227\223\330\115
\000\161\142\105\047\113\072\102\204\133\171\145\267\147\064\122
\055\334\026\153\252\250\030\173\243\121\14\161\307\014\312\076
\203\344\426\357\276\001\060\136\121\243\117\365\160\151\246\101
\104\017\206\260\054\221\136\075\352\256\017\204
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Certificate "e-Szigno Root CA 2017"

# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After : Fri Aug 22 12:07:06 2042

# Not Valid After : Fri Jul 18 23:00:23 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\163\245\346\112\073\377\203\026\377\016\334\314\141\212\220\156
\116\256\115\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\370\037\172\300\356\065\216\311\017\107
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\000\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\010\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\000\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\113\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
End

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After : Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\324\203\303\117\236\262\321\110\200\137\162\067\324\251\246\357
\313\174\037\321
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\037\366\236\204\256\247\264\041\316\036\130\175\321\204\230
END

CKA_ISSUER MULTILINE_OCTAL
\060\016\010\013\060\001\110\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\140\101\102\165\144\141\160\145
\163\164\061\126\060\024\006\003\125\004\012\014\015\115\151\143
# Certificate "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number: 11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After: Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
"\162\157\163\145\143\040\114\164\144\056\061\027\060\002\145\006\003\125\004\016\126\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\060\061\067"
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
"\002\014\000\124\110\357\041\375\227\131\015\365\004\012"
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number: 11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After: Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
"\162\157\163\145\143\040\114\164\144\056\061\027\060\002\145\006\003\125\004\016\126\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\060\061\067"
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
"\002\014\000\124\110\357\041\375\227\131\015\365\004\012"
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number: 11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After: Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
"\162\157\163\145\143\040\114\164\144\056\061\027\060\002\145\006\003\125\004\016\126\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\060\061\067"
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
"\002\014\000\124\110\357\041\375\227\131\015\365\004\012"
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

# Trust for "certSIGN Root CA G2"
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Certificate "Trustwave Global Certification Authority"

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243
\125\222\345\062

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\317\224\267\367\145\040\207\303\227\307

END

CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\201\060\017\006\003\125\004\010\001\014\101\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\161\167\111\166\145\040\101\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\161\146\145\040\107\154\157
\142\141\154\040\103\145\162\164\154\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\201\060\017\006\003\125\004\010\001\014\101\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\111\166\145\040\101\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\161\146\145\040\107\154\157
\142\141\154\040\103\145\162\164\154\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262
\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003
\125\004\010\140\010\111\154\154\151\156\157\151\163\061\020\060
\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061
\140\0160\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\111\166\145\040\101\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\161\146\145\040\107\154\157
\142\141\154\040\103\145\162\164\154\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\032\063\022\020\003\032\240\003\002\001\002\002\014\005
\367\016\206\332\111\363\106\065\056\272\262\060\015\006\011\052
\206\011\020\063\367\015\001\001\013\005\000\060\201\120\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\021\060\017\006\003
\125\004\010\140\010\111\154\154\151\156\157\151\163\061\020\060
\016\006\003\125\004\007\014\007\103\150\151\143\141\147\157\061
\140\0160\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\111\166\145\040\101\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\161\146\145\040\107\154\157
\142\141\154\040\103\145\162\164\154\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
\273\051\067\100\005\007\030\022\022\237\312\144\035\361\033\053
\334\016\012\020\002\061\375\112\150\015\007\014\220\034\063\036
\052\241\250\273\074\135\371\243\010\013\021\014\036\107\077\055\020
\224\151\376\134\026\042\070\203\032\63\173\345\033\065\155\132\220\033\034
\260\015\250\240\025\212\060\047\020\066\247\025\266\010\046\012\124
\127\266\231\323\420\131\171\220\327\127\022\121\065\031\120\010
\150\045\324\067\027\204\025\373\001\162\334\225\336\122\046\040
\230\046\342\166\365\047\157\372\008\073\112\141\331\015\133\121
\232\305\375\026\006\226\247\040\033\232\043\110\376\121\275\266\304
\260\261\124\134\336\154\101\125\026\147\176\333\375\070\315\271
\170\016\262\301\140\313\233\025\266\172\142\262\046\017
\164\225\233\344\131\035\53\220\173\352\200\034\233\131\271\043\323
\061\124\024\263\377\070\335\317\040\117\135\130\126\072\147\033\321
\366\231\231\253\272\066\266\200\057\210\017\117\206\277\104\072
\200\344\067\034\246\272\352\227\230\021\132\020\041\042\107\144\036
\252\356\100\277\064\261\023\017\116\341\362\222\117\037\216\363
\236\227\336\363\246\171\152\211\116\111\113\047\027\110\376\035
\346\100\171\117\111\117\53\141\105\334\275\172\100\035\101\134\141
\126\047\006\151\134\51\201\012\323\266\001\211\240\057\072\162
\171\137\072\060\277\101\354\037\142\076\221\113\307\333\016\116
\102\213\367\074\134\354\046\214\163\014\175\53\032\053\155\252\017
\207\250\030\204\171\341\063\101\017\171\317\317\374\000\240\004\200
\236\112\247\157\000\260\101\105\267\042\312\150\110\305\102\242
\256\335\035\362\340\156\116\005\130\261\130\022\026\052\244\075
\200\100\276\217\142\143\020\035\123\240\201\175\055\002\352\120\036
\174\313\047\311\375\036\146\000\260\056\323\041\057\216\063\026
\154\230\355\202\250\007\326\314\223\173\333\321\151\034\344\312
\311\340\266\234\351\316\161\161\133\51\077\026\244\171
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O=“Trustwave Holdings,
Inc.”,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O=“Trustwave Holdings,
Inc.”,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After: Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "Trustwave Global ECC P256 Certification Authority"

# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After: Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\136\106\065\056\272\262
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column 6</td>
<td>Column 7</td>
<td>Column 8</td>
<td>Column 9</td>
<td>Column 10</td>
</tr>
</tbody>
</table>

# Trust for “Trustwave Global ECC P256 Certification Authority”
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O=“Trustwave Holdings, Inc.”,L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O=“Trustwave Holdings, Inc.”,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “Trustwave Global ECC P256 Certification Authority”
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\004
\315\355\102\317
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\104\343\215\135\066\206\046\350\015\005\322\131\247\203\124
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\001\006\003\125\004\006\023\002\125\123
# Certificate "Trustwave Global ECC P384 Certification Authority"

# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042

cka_class ck_object_class ckO_certificate
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label UTF8 "Trustwave Global ECC P384 Certification Authority"
cka_certificate_type ck_certificate_type ckC_x_509
cka_subject multiline_octal
\061\021\060\017\006\003\125\004\001\002\023\010\111\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\107\154\157
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\030\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
# Trust for "Trustwave Global ECC P384 Certification Authority"
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\110\241\122\355\170\047\223\326 END
CKA_ISSUER MULTILINE_OCTAL
\324\362\230\204\070\145\240\243\103\060\101\060\017\006\003\125
\035\023\001\014\137\004\005\060\003\003\011\037\70\017\006\003
\125\035\017\001\013\377\004\005\303\003\007\006\000\060\035\006
\003\125\035\016\004\026\000\04\024\125\251\120\211\322\301\062\275
\030\033\114\242\60\071\163\110\347\235\276\202\222\060\012\006\010
\05\220\011\010\307\050\003\003\003\014\17\000\060\144\002\060\067
\001\222\227\105\022\176\240\363\076\255\031\072\162\335\364\120
\223\030\022\226\1043\222\117\101\144\214\234\235\037\243\366\302
\222\247\110\024\376\116\233\245\221\127\256\306\067\162\273\002
\060\147\045\012\261\014\136\356\251\143\222\157\345\220\013\376
\146\042\312\107\375\212\061\367\203\367\172\277\020\276\030\053
\036\217\366\051\036\224\131\357\216\041\067\313\121\230\245\156
\113
END
Certificate 

Certificate "NAVER Global Root Certification Authority"

Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR


Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR

Not Valid Before: Fri Aug 18 08:58:42 2017

Not Valid After: Tue Aug 18 23:59:59 2037


CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

TOKEN CK_BBOOL CK_TRUE

PRIVATE CK_BBOOL CK_FALSE

MODIFIABLE CK_BBOOL CK_FALSE

LABEL UTF8 "NAVER Global Root Certification Authority"

CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

SUBJECT MULTILINE_OCTAL

003023061D2C154211651163116411671041A11661A14504010711541157 
1121141A1154040105110311030401201063070106404010311451162 
116411511146111411164111511157115604010111165116411501157 
1162115111641171

END

ID UTF8 "0"

ISSUER MULTILINE_OCTAL

003023061D13060111006003112500400602300211131122061 
0A6006044000000311250040120114035116101112610151122040 
1012125112311111610511231123040120114111411124110611171122 
1150401031157116216005606110620606006060031125004003 
0A14051111611011261105112204010711541157114211411154040122 
11571157116404010311451162116411511146111431141116411511157 
115604010111651164115011571162115111641171

END

ID UTF8 "0"

ISSUER MULTILINE_OCTAL

003023061D13060111006003112500400602300211131122061 
0A6006044000000311250040120114035116101112610151122040 
1012125112311111610511231123040120114111411124110611171122 
1150401031157116216005606110620606006060031125004003 
0A14051111611011261105112204010711541157114211411154040122 
11571157116404010311451162116411511146111431141116411511157 
115604010111651164115011571162115111641171
# Trust for "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\130
\036\170\135\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\176\224\013\335\365\063\011\123\027\365\011\126\027\350\106\075\177\320\233
END
CKA_ISSUER MULTILINE_OCTAL
\160\151\150\151\014\006\003\125\004\100\003\125\004\100\000\230\002\113\122\061
\140\151\150\151\014\006\003\125\004\100\000\230\002\113\122\061
\046\060\044\060\000\125\004\102\014\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\162\060\060\060\060\003\125\004\003
\104\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\154\160\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\240\001\224\060\036\242\013\335\365\063\052\261\103\104
\161\137\326\120\115\015
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
#


`# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
`# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
`# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
# Fingerprint (SHA-256):
# Certificate "GlobalSign Secure Mail Root R45"

# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045

cka_class ck_object_class CKO_NSS_CERTIFICATE
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
cka_cert_sha1_hash multiline_octal \142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062 \311\343\345\112 END
cka_cert_md5_hash multiline_octal \031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273 END
ccka_issuer multiline_octal \060\170\061\013\060\011\006\003\125\004\006\023\002\105\123\061 \021\060\017\006\003\125\004\012\140\010\106\116\115\124\055\122 \103\115\061\016\060\014\040\000\125\004\013\014\005\103\145\162 \145\163\061\030\006\026\006\003\125\004\141\014\017\126\101\124 \105\123\055\121\062\070\062\066\060\060\064\112\061\105\060\052 \006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106 \116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122 \105\123\040\123\105\107\125\122\117\123 END
ccka_serial_number multiline_octal \002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056 \235\225 END
ccka_trust_server_auth ck_trust CKT_NSS_TRUSTED_DELEGATOR
ccka_trust_email_protection ck_trust CKT_NSS_MUST_VERIFY_TRUST
ccka_trust_code_signing ck_trust CKT_NSS_MUST_VERIFY_TRUST
ccka_trust_step_up_approved ck_bbool ck_false

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\276\122\110\030\06\02\115\255\127\167\011\175\201\06\240
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\204\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\276\122\110\030\06\02\115\255\127\167\011\175\201\06\240
END
CKA_ISSUER_MULTILINE_OCTAL
\152\217\224\210\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER_MULTILINE_OCTAL
\152\217\224\210\263\016\124\107\034\103\054\213\276\160\205\142\051
END
Open Source Used In Crosswork Common EMS Services 4.0.0  2473

# Certificate "GlobalSign Secure Mail Root E45"

# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045

END
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\041\060\202\001\247\240\003\002\001\002\002\020\166
\123\376\252\047\035\225\106\135\326\361\126\345\270\220\012\060
\012\006\010\052\206\110\316\075\004\003\003\060\122\061\130\060
\011\006\003\125\004\006\023\002\102\105\061\013\006\027\006\003
\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040
\156\160\055\163\141\060\105\060\046\006\003\125\004\003\023\037
\107\154\157\142\141\154\123\151\147\156\040\143\165\162
\145\040\115\141\154\040\122\157\157\164\040\105\064\065\060
\036\027\105\062\060\060\060\063\061\070\060\060\060\060\060\060\060\060\060\060\132
\027\15\064\065\060\060\063\061\107\060\060\060\060\060\060\060\060\060\060\012\060
\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031
\060\027\006\006\003\125\004\012\023\020\107\154\157\142\141\154\123
\151\147\156\040\156\055\163\141\061\015\050\060\046\006\003\125
\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123
\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164\040
\10\154\064\065\166\060\020\006\006\070\052\206\110\316\075\002\001
\006\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107
\067\211\226\077\105\111\120\177\032\046\013\222\062\176\065\030
\300\024\010\123\020\033\156\217\233\076\013\042\354\067\123\267\157
\212\260\274\047\067\113\155\251\110\063\073\331\037\377\245\241\104
\273\055\163\277\236\101\007\134\123\233\121\010\027\132\273\157
\070\030\026\221\170\032\121\023\151\035\202\337\132\057\000\210
\226\224\056\034\164\371\123\51\176\146\067\123\243\102\060\010\006
\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\060
\017\006\003\125\035\023\001\010\137\004\005\060\003\000\010\137
\060\035\067\003\125\035\016\004\026\004\024\337\023\136\213\117
\130\210\100\002\375\151\267\224\114\266\036\325\246\261\102\242\226\060
\012\006\010\052\206\110\316\075\004\003\003\150\000\000\060\145
\002\060\023\260\207\327\161\040\076\344\253\234\316\066\022\175
\137\114\037\052\265\151\105\063\137\323\055\132\262\344\210\307
\336\021\002\061\000\240\146\034\116\207\235\207\311\355\231\114
\033\012\356\055\140\030\067\307\035\151\265\162\260\331\306\357
\274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127
\211\057\244\313\174
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\030\056\037\062\117\211\337\276\376\210\211\360\223\302\304\240
\053\147\165\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\012\233\020\017\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Root R46"
#
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
# Trust for "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277
\167\303\242\220

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\024\060\044\037\214\61\023\052\152\033\044\137\031\320\037

END

CKA_ISSUER MULTILINE_OCTAL
\060\010\060\010\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\203\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\022\021\273\271\237\043\030\236\100\137\012\235\055\032
\337\045\147\321

END
# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"

CKA_ID UTF8 "0"

---

CKA_ISSUER MULTILINE_OCTAL
06010606010103060001110060031125004006023002102105061
0310600270060003125004012023020107115411571421411154
123115114711560401156116605511631141106113406032006003
125004003023023107115411571421411154112311511471156040
1122115715711640401050640066

---

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002022022210322222273127206311563242743460441150305015204
035230350103

---

CKA_VALUE MULTILINE_OCTAL
06020202002101306020200112212400030020010020020222021
3224227327206311563242743460441150305015204035230350
10306001012006010522061110316075004003003060106061
0130600101100603125004006023002102105061031060027
006003112500401202302010711541157142141115411231151147
115604011561166055116311411061134060320060031125004003

---
END

# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\264\154\325\376\200\006\353\342\057\112\273\010\006\3\240\257
# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):

# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):

# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):

# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\121\133\372\145\345
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\202\060\202\003\152\240\003\002\001\002\002\013\132\113\275\132\373\117\121\133\372\145\345
END

\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\006\023\020\107\114\117\102\101\114\124\122
\125\123\124\040\062\060\062\060\060\036\027\015\062\060\060\062
\061\106\060\060\060\060\060\060\132\027\015\064\060\060\060\061
\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003
\125\004\006\060\023\002\010\112\046\010\043\060\040\006\003\125\004\012
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156
\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027
\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125
\123\124\040\062\060\062\060\060\036\027\015\062\060\060\062
\061\106\060\060\060\060\060\060\132\027\015\064\060\060\060\061
\060\060\060\060\060\060\060\132\060\115\061\013\060\011\006\003
\125\004\006\060\023\002\010\112\046\010\043\060\040\006\003\125\004\012
\023\032\145\055\143\157\155\155\145\162\143\145\040\155\157\156
\151\164\157\162\151\156\147\040\107\155\142\110\061\031\060\027
\006\003\125\004\003\023\020\107\114\117\102\101\114\124\122\125
\123\124\040\062\060\062\060\060\020\020\024\060\015\060\011\052
\206\11\206\067\015\001\001\001\000\032\020\002\017\000\006
\202\020\012\020\020\001\000\256\056\126\255\033\034\357\366
\225\217\240\167\033\053\333\143\133\172\041\151\052\242\017\237\133
\105\23\131\173\121\064\371\354\212\155\067\157\342\176
\006\121\331\105\204\037\022\316\044\122\146\250\013\253\131
\111\244\243\243\053\212\002\304\170\236\415\212\230\344\172\066
\261\157\033\226\033\167\11\215\324\31\100\161\212\173\171\233\343
\334\027\205\040\112\334\230\047\323\221\046\053\107\036\151\007
\257\336\242\344\043\324\153\031\263\136\174\324\044\200\107\051
\151\073\156\350\254\375\100\353\330\355\161\161\053\362\350\130
\035\535\101\127\042\305\037\324\071\320\047\217\207\343\030\364
# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046\117\123\161\242
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\212\307\157\313\155\343\314\242\361\174\203\372\016\170\327\350
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\151\156\151\164\157\162\151\156\147\040\107\155\142\110\061\031\106\102\125\004\003\023\020\107\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ANF Secure Server Root CA"
#
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number: 0d:d3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA, OU=ANF CA Raiz, O=ANF Autoridad de Certificación, C=ES, serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After: Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# Trust for “ANF Secure Server Root CA”
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153
\057\135\157\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\010\116\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\010\116\106\040\013\010\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\015\323\343\274\154\371\153\261
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum EC-384 CA"
#
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\016\064\060\013\060\001\110\006\003\125\000\040\006\023\002\120\114\061
\041\060\037\006\003\125\000\040\012\023\030\010\163\163\145\143\157
\040\010\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\060\147\060\045\006\003\125\000\040\13\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\106\103\106\027\006
\003\125\000\040\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\016\064\060\013\060\001\110\006\003\125\000\040\006\023\002\120\114\061
\041\060\037\006\003\125\000\040\012\023\030\010\163\163\145\143\157
\040\010\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\060\147\060\045\006\003\125\000\040\13\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\106\103\106\027\006
\003\125\000\040\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272 \163\364
END
CKA_VALUE MULTILINE_OCTAL
\060\020\002\145\060\202\001\153\240\003\002\001\002\002\020\170
\127\047\134\201\022\122\040\245\004\320\055\335\272 \163\364\060
\012\006\010\052\206\110\316\075\004\003\003\060\164\061\013\060
\011\006\003\125\000\040\060\230\002\120\114\061\041\060\003\037\006\003
\125\004\010\120\203\030\101\163\163\145\143\157\040\104\141\164\141
\040\123\171\163\164\145\155\163\040\123\056\101\106\010\164\063\062\066\062
\132\060\164\061\013\106\003\125\004\060\230\002\120\114

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum EC-384 CA"
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\126\327\345
\026\074\341\135
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\060\013\060\001\11\006\003\125\004\006\023\002\120\014\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\014\070\006\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\151\156\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\361
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Certum Trusted Root CA"
#
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\060\013\060\001\11\006\003\125\004\006\023\002\120\014\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\014\070\006\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\156\155\040\124\162\165

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# Trust for "Certum Trusted Root CA"

# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
#
#
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
#
# Not Valid Before: Fri Mar 16 12:10:13 2018
#
# Not Valid After : Mon Mar 16 12:10:13 2043
#
# Fingerprint (SHA-256):
#

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
open source used in crosswork common ems services 4.0.0 2495

# Certificate "TunTrust Root CA"
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):

# Certificate "TunTrust Root CA"
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):

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# Trust for "TunTrust Root CA"
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\133\066\134\266\136\270\132\370\040\127\264

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\161\144\164\151\157\156\141\154\145\040\144\145\140\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HARICA TLS RSA Root CA 2021"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After: Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "HARICA TLS ECC Root CA 2021"

# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After: Mon Feb 13 11:01:09 2045

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

# Certificate "HARICA TLS ECC Root CA 2021"

# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After: Mon Feb 13 11:01:09 2045

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_CERT_MDB_HASH_MULTILINE_OCTAL
END
CKA_ISSUER_MULTILINE_OCTAL
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
END
CKA_SERIALNUMBER_MULTILINE_OCTAL
# Certificate "HARICA Client RSA Root CA 2021"

# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After: Mon Feb 13 10:58:45 2045
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\134\2
\277\136
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\134\2
\277\136
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\134\2
\277\136
END

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# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
# Subject: CN=HARICA Client RSA Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After: Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007
\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\133\351\135\335\133\333\135\303\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\001\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\140\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\122\111\103\101\040\103\154\151\145\156\164
\040\122\123\101\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL \"0601570610130600110060031250040060023002107\1122061\0670600650060031250040060023002107\1122061\151114304010111431144114414511551151114304014111561144040\122145163145141116214315004011111561631641511164165\1641511571561630401031011061047060045006003125004\0030140361110111221111103101040103154115114511561164\0401051031030401221157157164040103101040062060062\061END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL \0601570610130600110060031250040060023002107\1122061\0670600650060031250040120140506110145115411541151156\151114304010111431144114414511551151114304014111561144040\122145163145141116214315004011111561631641511164165\1641511571561630401031011061047060045006003125004\0030140361110111221111103101040103154115114511561164\0401051031030401221157157164040103101040062060062\061END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \00202006115033113303411421270363220311042103461020\175360END
CKA_VALUE MULTILINE_OCTAL \06020200021320602020001341240003002001002002020061\1503313303411421270363220311042103461020175360060\012006010052206111031607500400030030601157061013060\0110060031250040060023002107\1122061067060065006003\125004012014050611014511541154115111430401011143\1411144145115511511430401411156114404012214511631451141\1621431500401111156163164151116415111571561163\040103101061047060045006003125004103101040062060062\061END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"

# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\103\060\011\064\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\155\151
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243

END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\001\100\060\003\125\004\006\023\002\105\123\061
\102\060\100\000\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
# Certificate "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
```plaintext
END

CKA_NSS_MOZILLA_CA_POLICY CKBBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CKBBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CKBBOOL CK_FALSE

# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
```
# Certificate "vTrus Root CA"

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061 \034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103 \150\151\156\141\122\124\162\165\163\040\105\103 \103\040\122\157\157\164\040\103\101 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
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# Trust for “vTrus Root CA”
# Issuer: CN=vTrus Root CA,O=“iTrusChina Co.,Ltd.”,C=CN
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “vTrus Root CA”
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\032\151\373\365\315\032\045\064\023\075\343\370\374\270\231
\320\311\067\337\372\153\061\204\144\305\352\202\152\033\165\374
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\311\067\337\372\153\061\204\144\305\352\202\152\033\165\374
END
CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After: Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
`\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040\017\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\062

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
`\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040\017\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
`\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122

END

CKA_VALUE MULTILINE_OCTAL
`\060\202\002\033\060\202\001\241\124\003\002\001\002\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057\207\122\060\12\246\170\013\060\011\006\003\125\004\006\023\002\125\123\061\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040\017\162\157\165\160\061\025\060\023\006\003\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130

END
# Trust for "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"

END
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "HiPKI Root CA - G1"
#
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \140\263\056\262\344\250\356\033\354\226\105\067\343\051\127\111\315\226\343\345\322\140
CKA_CERT_MD5_HASH MULTILINE_OCTAL \152\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
CKA_ISSUER MULTILINE_OCTAL \060\117\061\130\060\011\006\003\125\004\006\023\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\200\055\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign ECC Root CA - R4"
# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\122\064\061\023\060\021\006\000\003\125\004\012\023\012\107\154\157
\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\106\002
\006\007\052\206\110\316\075\002\001\006\010\052\206\110\316\075
\003\001\007\003\010\02\000\004\270\061\171\132\171\154\045\016\237
\056\071\031\034\003\24\250\232\345\071\007\110\263\132\143\261
\271\206\370\212\127\301\127\316\161\02\372\163\241\367\145\102\377
\036\301\000\262\156\163\016\377\307\041\345\030\244\252\331\161
\077\250\324\271\136\161\24\035\243\102\060\100\060\16\006\003\125
\035\017\001\100\137\77\004\004\003\002\001\206\060\017\006\003\125
\035\023\001\100\137\77\004\005\060\003\003\001\377\060\356\000\003
\125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177
\373\012\156\373\276\063\311\074\243\204\325\060\012\006\010\052
\206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117
\164\162\271\140\257\361\346\234\240\026\05\120\137\303\136\073
\156\141\164\357\276\001\304\276\030\110\131\141\202\062\002\040
\046\252\124\143\100\336\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\153\240\260\230\341\161\135\132\255\376\110\025\200\167\020\364
\275\157\013\050
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\051\370\155\341\210\027\242\145\177\252\304\315\017\177\374
END

CKA_ISSUER_MULTILINE_OCTAL
\060\120\061\044\060\002\060\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004

Open Source Used In Crosswork Common EMS Services 4.0.0 2528
# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\015\002\003\345\176\223\375\245\011\041\262\246
END
CKA_ID UTF8 "0"

# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\015\002\003\345\176\223\375\245\011\041\262\246
END
CKA_ID UTF8 "0"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016

Open Source Used In Crosswork Common EMS Services 4.0.0
2531
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153
\235\331\201\112
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R2"
#
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

```plaintext
```

```plaintext
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

```plaintext
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
```

```plaintext
\126\011\044\224
```

```plaintext
END
```

```plaintext
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

```plaintext
\036\071\300\123\346\036\051\020\013\121\122\125\066\135\127\334
```

```plaintext
END
```

```plaintext
CKA_ISSUER MULTILINE_OCTAL
```

```plaintext
\060\107\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\060\024\060\022\006\003\125\004\003\023\013\107\124
```

```plaintext
\123\040\122\157\157\164\040\122\062
```

```plaintext
END
```

```plaintext
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

```plaintext
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
```

```plaintext
END
```

```plaintext
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```
# Certificate "GTS Root R3"

### Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
### Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
### Not Valid Before: Wed Jun 22 00:00:00 2016
### Not Valid After: Sun Jun 22 00:00:00 2036

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\101\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\11\060\022\001\126\240\003\002\001\002\002\015\002
\003\345\270\022\353\040\370\045\047\155\075\146\060\012\006\010
\052\206\110\316\075\004\003\003\060\107\061\013\060\011\006\003
\125\004\006\023\002\125\123\061\042\060\040\006\003\125\004\002
\023\031\107\157\157\147\154\145\040\124\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\063\060\036\027\015\061\066\060\066\062\062\060\060\060\060\060
\060\132\027\015\063\060\060\060\062\062\060\060\060\060\060
\132\060\010\061\013\060\011\006\003\125\004\006\023\002\125\123
```
# Trust for "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
# Certificate "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_TRUE
CKA_PRIVATE CK_FALSE
CKA_MODIFIABLE CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CKCERTIFICATE_TYPE CKCERTIFICATE_TYPE
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\000\03\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\163\163\164\040\123\145\162\166\151\143\145\163\040
\114\14\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064

END
# Trust for “GTS Root R4”
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\133\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
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\042\060\040\006\003\125\004\012\23\03\1\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\150\357\143\032\234\162\220\120\122
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CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
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* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/certdata.txt
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/certdata.txt

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1.276 stax-ex 1.8.1
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1.280 sqlite 3.36.0-r0

1.280.1 Available under license:

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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** [[SQLITE_CONFIG_SINGLETHREAD]]<dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all muting and puts SQLite into a mode where it can only be used
 ** by a single thread. If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option. </dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]]<dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** muting on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time. If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option. </dd>
 **
**[SQLITE_CONFIG_SERIALIZED]**<dt>SQLITE_CONFIG_SERIALIZED</dt><br/>**<dd>There are no arguments to this option. ^This option sets the **threading mode** to Serialized. In other words, this option enables **all mutexes including the recursive **mutexes on [database connection] and [prepared statement] objects. **In this mode (which is the default when SQLite is compiled with **[SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access **to [database connections] and [prepared statements] so that the **application is free to use the same [database connection] or the **same [prepared statement] in different threads at the same time. **If SQLite is compiled with **the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then **it is not possible to set the Serialized [threading mode] and **[sqlite3_config()] will return [SQLITE_ERROR] if called with the **[SQLITE_CONFIG_SERIALIZED] configuration option.</dd><br/>**

**[SQLITE_CONFIG_MALLOC]**<dt>SQLITE_CONFIG_MALLOC</dt><br/>**<dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. **The argument specifies **alternative low-level memory allocation routines to be used in place of **the memory allocation routines built into SQLite.)^ ^SQLite makes **its own private copy of the content of the [sqlite3_mem_methods] structure **before the [sqlite3_config()] call returns.</dd><br/>**

**[SQLITE_CONFIG_GETMALLOC]**<dt>SQLITE_CONFIG_GETMALLOC</dt><br/>**<dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. **The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)^ **This option can be used to overload the default memory allocation **routines with a wrapper that simulates memory allocation failure or **tracks memory usage, for example. </dd><br/>**

**[SQLITE_CONFIG_SMALL_MALLOC]**<dt>SQLITE_CONFIG_SMALL_MALLOC</dt><br/>**<dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of type int, interpreted as a boolean, which if true provides a hint to **SQLite that it should avoid large memory allocations if possible. **SQLite will run faster if it is free to make large memory allocations, **but some application might prefer to run slower in exchange for **guarantees about memory fragmentation that are possible if large **allocations are avoided. This hint is normally off.</dd><br/>**

**[SQLITE_CONFIG_MEMSTATUS]**<dt>SQLITE_CONFIG_MEMSTATUS</dt><br/>**<dd> ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^  
**   Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative. If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer 
** that SQLite will use for all of its dynamic memory allocation needs  
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE]. 
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled 
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns 
** [SQLITE_ERROR] if invoked otherwise. 
** ^There are three arguments to SQLITE_CONFIG_HEAP: 
** An 8-byte aligned pointer to the memory,  
** the number of bytes in the memory buffer, and the minimum allocation size. 
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts 
** to using its default memory allocator (the system malloc() implementation), 
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the 
** memory pointer is not NULL then the alternative memory 
** allocator is engaged to handle all of SQLites memory allocation needs.  
** The first pointer (the memory pointer) must be aligned to an 8-byte 
** boundary or subsequent behavior of SQLite will be undefined. 
** The minimum allocation size is capped at 2**12. Reasonable values 
** for the minimum allocation size are 2**5 through 2**8. </dd> 
** 
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt> 
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a 
** pointer to an instance of the [sqlite3_mutex_methods] structure. 
** The argument specifies alternative low-level mutex routines to be used 
** in place the mutex routines built into SQLite.)^ SQLite makes a copy of 
** the content of the [sqlite3_mutex_methods] structure before the call to 
** [sqlite3_config()] returns. ^If SQLite is compiled with 
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then 
** the entire mutexing subsystem is omitted from the build and hence calls to 
** [sqlite3_config() with the SQLITE_CONFIG_MUTEX configuration option will 
** return [SQLITE_ERROR]. </dd> 
** 
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt> 
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which 
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The 
** [sqlite3_mutex_methods] 
** structure is filled with the currently defined mutex routines.)^ 
** This option can be used to overload the default mutex allocation 
** routines with a wrapper used to track mutex usage for performance 
** profiling or testing, for example. ^If SQLite is compiled with 
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then 
** the entire mutexing subsystem is omitted from the build and hence calls to 
** [sqlite3_config() with the SQLITE_CONFIG_GETMUTEX configuration option will 
** return [SQLITE_ERROR]. </dd> 
** 
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt> 
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine 
** the default size of lookaside memory on each [database connection]. 
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^  </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object. </dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^  </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()]) to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> ^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^  ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^**
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>^This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
of type (int) - the new value of the sorter-reference size threshold.

Usually, when SQLite uses an external sort to order records according
to an ORDER BY clause, all fields required by the caller are present in the
sorted records. However, if SQLite determines based on the declared type
of a table column that its values are likely to be very large - larger
than the configured sorter-reference size threshold - then a reference
is stored in each sorted record and the required column values loaded
from the database as records are returned in sorted order. The default
value for this option is to never use this optimization. Specifying a
negative value for this option restores the default behaviour.
This option is only available if SQLite is compiled with the
[SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.

[[SQLITE_CONFIG_MEMDB_MAXSIZE]]

<dt>SQLITE_CONFIG_MEMDB_MAXSIZE</dt>
<dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
[sqlite3_int64] parameter which is the default maximum size for an in-memory
database created using [sqlite3_deserialize()]. This default maximum
size can be adjusted up or down for individual databases using the
[SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
configuration setting is never used, then the default maximum is determined
by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
compile-time option is not set, then the default maximum is 1073741824.
</dd>
*/

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

/*
** CAPI3REF: Configuration Options
** KEYWORDS: [configuration option]
**
** These constants are the available integer configuration options that
can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. *This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all muting and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the [product release note] configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** muting on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>

**

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.) ^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>

**
** [SQLITE_CONFIG_GETMALLOC] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [SQLITE_CONFIG_SMALL_MALLOC] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [SQLITE_CONFIG_MEMSTATUS] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status64()]
** </ul>^
** Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [SQLITE_CONFIG_SCRATCH] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [SQLITE_CONFIG_PAGECACHE] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. The number of extra bytes needed by the page header can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ]. It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz*N bytes, otherwise subsequent behavior is undefined.

When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to [sqlite3_malloc()] if a page cache line is larger than sz bytes or if all of the pMem buffer is exhausted.

If pMem is NULL and N is non-zero, then each database connection does an initial bulk allocation for page cache memory from [sqlite3_malloc()] sufficient for N cache lines if N is positive or of -1024*N bytes if N is negative. If additional page cache memory is needed beyond what is provided by the initial allocation, then SQLite goes to [sqlite3_malloc()] separately for each additional cache line.

The SQLITE_CONFIG_HEAP option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by [SQLITE_CONFIG_PAGECACHE]. The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled with [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns [SQLITE_ERROR] if invoked otherwise.

There are three arguments to SQLITE_CONFIG_HEAP:

An 8-byte aligned pointer to the memory, the number of bytes in the memory buffer, and the minimum allocation size.

If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the memory pointer is not NULL then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs.

The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.

The minimum allocation size is capped at 2**12. Reasonable values for the minimum allocation size are 2**5 through 2**8.

The SQLITE_CONFIG_MUTEX option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The argument specifies alternative low-level mutex routines to be used in place the mutex routines built into SQLite. SQLite makes a copy of the content of the [sqlite3_mutex_methods] structure before the call to
**[sqlite3_config()]** returns. ^If SQLite is compiled with
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**the entire mutexing subsystem is omitted from the build and hence calls to
**[sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
**return [SQLITE_ERROR].</dd>

**

**[[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
**is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
**[sqlite3_mutex_methods]
**structure is filled with the currently defined mutex routines.)^
**This option can be used to overload the default mutex allocation
**routines with a wrapper used to track mutex usage for performance
**profiling or testing, for example. ^If SQLite is compiled with
**the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
**the entire mutexing subsystem is omitted from the build and hence calls to
**[sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
**return [SQLITE_ERROR].</dd>

**

**[[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
**the default size of lookaside memory on each [database connection].
**The first argument is the
**size of each lookaside buffer slot and the second is the number of
**slots allocated to each database connection.)^ ^SQLITE_CONFIG_LOOKASIDE
**sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
**option to [sqlite3_db_config()] can be used to change the lookaside
**configuration on individual connections.)^ </dd>

**

**[[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
**a pointer to an [sqlite3_pcache_methods2] object. This object specifies
**the interface to a custom page cache implementation.)^
**^SQLite makes a copy of the [sqlite3_pcache_methods2] object.)</dd>

**

**[[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
**is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
**the current page cache implementation into that object.)^ </dd>

**

**[[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
**global [error log].
**^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
**function with a call signature of void(*)(void*,int,const char*),
**and a pointer to void. ^If the function pointer is not NULL, it is
**invoked by [sqlite3_log()] to process each logging event. ^If the
**function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
**The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. The second parameter to the logger function is a copy of the first parameter to the corresponding [sqlite3_log()] call and is intended to be a [result code] or an [extended result code]. The third parameter passed to the logger is log message after formatting via [sqlite3_snprintf()].

The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface. In a multi-threaded application, the application-defined logger function must be threadsafe.

**[[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
<dd>(The SQLITE_CONFIG_URI option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled.) If URI handling is globally enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the [SQLITE_OPEN_URI] flag is set when the database connection is opened. If it is globally disabled, filenames are only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened. (By default, URI handling is globally disabled. The default value may be changed by compiling with the [SQLITE_USE_URI] symbol defined.)

**[[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
<dd>(The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the SQLITE_ALLOW_COVERING_INDEX_SCAN compile-time option, or is "on" if that compile-time option is omitted. The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.

**[[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
<dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
<dd>These options are obsolete and should not be used by new code. They are retained for backwards compatibility but are now no-ops.

**[[SQLITE_CONFIG_SQLLOG]]
<dt>SQLITE_CONFIG_SQLLOG
<dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>

**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** ** [SQLITE_CONFIG_STMTJRNL_SPILL]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** ** [SQLITE_CONFIG_SORTERREF_SIZE]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** ** [SQLITE_CONFIG_MEMDB_MAXSIZE]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** */
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/
** 2004 May 22
**
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** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
**************************************************************************
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** sqlite3_file methods not associated with locking.
** Definitions of sqlite3_io_methods objects for all locking methods plus "finder" functions for each locking method.
** sqlite3_vfs method implementations.
** Locking primitives for the proxy uber-locking-method. (MacOSX only)
** Definitions of sqlite3_vfs objects for all locking methods plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/
** Return a pointer to the "temporary page" buffer held internally by the pager. This is a buffer that is big enough to hold the entire content of a database page. This buffer is used internally during rollback and will be overwritten whenever a rollback occurs. But other modules are free to use it too, as long as no rollbacks are happening.
*/

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.c

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/* This will be more informative in a later version. */

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/shell.c

---

### 1.281 activemq-protobuf 1.1

#### 1.281.1 Available under license:

---

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1.282 jackson-xc 2.13.2

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1.283 wget 1.21.2-r2
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ResourceGroups.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ExpansionContext.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeParameterMetadataAccessor.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/JacksonSerializerConvention.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/PathAndParametersEquivalence.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/ResolvedMethodParameterEquivalence.java

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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/local/package-info.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/oio/ChannelOutboundHandlerAdapter.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/socket/package-info.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1- jar/io/netty/channel/socket/oio/package-info.java

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* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/Channel.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/nio/package-info.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/DefaultChannelFutureListener.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/ServerChannel.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/local/LocalAddress.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/DefaultChannelPromise.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/nio/package-info.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/channel/DefaultEventLoop.java
* /opt/cola/permits/1301894932_1649303793.42/jar/io/netty/bootstrap/Bootstrap.java
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  jar/io/netty/channel/ChannelHandlerMask.java
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jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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jar/io/netty/channel/pool/ChannelPoolMap.java
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  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
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  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its ChannelPipeline.
 *
 * Sub-types
 *
 * [ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 *
 * - [ChannelInboundHandler] to handle inbound I/O events, and
 * - [ChannelOutboundHandler] to handle outbound I/O operations.
 *
 * Alternatively, the following adapter classes are provided for your convenience:
 *
 * - [ChannelInboundHandlerAdapter] to handle inbound I/O events,
 * - [ChannelOutboundHandlerAdapter] to handle outbound I/O operations,
 * - [ChannelDuplexHandler] to handle both inbound and outbound events
 *
 * For more information, please refer to the documentation of each subtype.
 *
 * The context object
 *
 * A [ChannelHandler] is provided with a [ChannelHandlerContext] object. A [ChannelHandler] is supposed to interact with the
 * ChannelPipeline it belongs to via a context object. Using the
 * context object, the [ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*<h3>State management</h3>
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
*<pre>
* public interface Message {
*   // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*   <b>private boolean loggedIn;</b>
*   
*   { @code @Override}
*   public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*       if (loggedIn) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*   }
*   ...
* }<pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
*<pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}. 
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; { 
*   { @code @Override}
*   public void initChannel({@link Channel} channel) {
*     channel.pipeline().addLast("handler", new DataServerHandler());
*   }
* }<pre>
* <h4>Using `AttributeKey`s</h4>* 

* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `AttributeKey`s which is provided by `ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}
@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
    private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

Open Source Used In Crosswork Common EMS Services 4.0.0
The `{@code @Sharable}` annotation

In the example above which used an `{@link AttributeKey}`, you might have noticed the `{@code @Sharable}` annotation.

If a `{@link ChannelHandler}` is annotated with the `{@code @Sharable}` annotation, it means you can create an instance of the handler just once and add it to one or more `{@link ChannelPipeline}s` multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `{@link ChannelHandler}`, and `{@link ChannelPipeline}` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

Found in path(s):

```
/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/ChannelHandler.java

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

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1.286 annotations 1.3.2

1.287 tim-api 1.3.0

1.287.1 Available under license:

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  jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java
* /opt/cola/permits/1313350935_1650567027.52/0/netty-codec-haproxy-4-1-75-final-sources-2-
  jar/io/netty/handler/codec/haproxy/HAProxyMessage.java

1.290 activation-api 1.1.1

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1.292 avalon-framework 4.1.3

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1.293 jetty-io 9.4.11.v20180605

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1.298 progress 1.6

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* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/package-info.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
jar/io/netty/handler/codec/dns/DefaultDnsResponse.java
* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1-
1.301 guava 2.6

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* /opt/cola/permits/1149294040_1658056368.0563188/0/adapter-guava-2-6-0-sources-jar/retrofit2/adapter/guava/HttpException.java
* /opt/cola/permits/1149294040_1658056368.0563188/0/adapter-guava-2-6-0-sources-jar/retrofit2/adapter/guava/GuavaCallAdapterFactory.java

1.302 reflectasm 1.11.3

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*
*/

Found in path(s):
* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/AccessClassLoader.java
* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/ConstructorAccess.java
* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/FieldAccess.java
* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java
* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/MethodAccess.java

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1.306 camel-core 2.19.5

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* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/UserDataConstraint.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/HashLoginService.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
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* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/authentication/LoginCallback.java
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* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/HashCrossContextPsuedoSession.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/DefaultUserIdentity.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
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1.308 xerces-j 2.9.1
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Manifest-Version: 1.0
Name: org/aspectj/lang/
Specification-Title: AspectJ Runtime Classes
Specification-Version: 1.5
Specification-Vendor: aspectj.org
Implementation-Title: org.aspectj.tools
Implementation-Version: 1.5.4
Implementation-Vendor: aspectj.org
Bundle-Name: AspectJ
Bundle-Version: 1.5
Import-Package: org.aspectj.lang,org.aspectj.lang.reflect,org.aspectj.runtime
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jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
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/**
* Creates a new JSXRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
  * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
  * version.
  *
  * @param mv
  * the <code>MethodVisitor</code> to send the resulting inlined
  * method code to (use <code>null</code> for none).
  * @param access
  * the method's access flags (see { @link Opcodes}). This
  * parameter also indicates if the method is synthetic and/or
  * deprecated.
  * @param name
  * the method's name.
  * @param desc
  * the method's descriptor (see { @link Type}).
  * @param signature
  * the method's signature. May be <tt>null</tt>.
  * @param exceptions
  * the internal names of the method's exception classes (see
  * { @link Type#getInternalName() getInternalName}). May be
  * <tt>null</tt>.
  * @throws IllegalStateException
  * If a subclass calls this constructor.
  */

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/**
 * Creates a new [ @link GeneratorAdapter ]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #GeneratorAdapter(int, MethodVisitor, int, String, String) ]
 * version.
 */
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
* /

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* /
/****
* Constructs a new {@link Textifier}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #Textifier(int)}
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
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 */
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [{@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [{@link TypeReference}].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start

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* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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1.325 spring-ldap 1.3.1.RELEASE
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* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
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jar/org/springframework/ldap/core/CollectingNameClassPairCallbackHandler.java
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* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
  jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceTransactionManagerDelegate.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
  jar/org/springframework/ldap/transaction/compensating/manager/DirContextHolder.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
  jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceAndDataSourceTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
  jar/org/springframework/ldap/transaction/compensating/manager/TransactionAwareDirContextInvocationHandler.java

1.326 jakarta-annotation-api 1.3.5
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1.328 model 2.6.1

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

Preamble

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

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1
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a) The modified work must itself be a software library.

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
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instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

1.334 xsdlib 2013.6.1
1.334.1 Available under license:

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

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 */

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java

Open Source Used In Crosswork Common EMS Services 4.0.0 2926
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/EntityType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/SimpleURType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/RegExp.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FloatType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NmtokenType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BinaryValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Proxy.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListValueType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
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jar/com/sun/msv/datatype/regexp/RegexParser.java

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  jar/com/sun/msv/datatype/regexp/message_ja.properties
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1.335 antlr 2.7.6

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1.337 jackson-databind 2.10.0

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1.338 classgraph 4.8.139

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1.340 zlib 1.2.12-r0

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*/
group gUnitTestResult;

testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<
<title> with <num_of_test> tests

<num_of_failure> failures found:
<failure:{
  expected: <it.expectedResult>
  actual: <it.actualResult>
}
</if> has_invalid>
<num_of_invalid> invalid inputs found:
<invalid:{
  invalid input: <it.actual>
}
</if> has_invalid>


Found in path(s):
  */opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/antlr/gunit/gUnitTestResult.stg

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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/AbstractTest.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/BooleanTest.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/InvalidInputException.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/ReturnTest.java
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/*
group junit;

classHeader(header,junitFileName,hasTreeAdaptor,treeAdaptorPath,
hasPackage,packagePath,lexerPath,parserPath,treeParserPath,isTreeGrammar) ::= <<
<header>
import org.antlr.gunit.gUnitBaseTest;

public class <junitFileName> extends gUnitBaseTest {

public void setUp() {
  <if(hasTreeAdaptor)><
  <	><	>this.treeAdaptorPath = "<treeAdaptorPath>";<
  <endif>
<if(hasPackage)><
  <	><	>this.packagePath = "<packagePath>";<
  <endif>
this.lexerPath = "<lexerPath>";
this.parserPath = "<parserPath>";
<if(isTreeGrammar)><
  <	><	>this.treeParserPath = "<treeParserPath>";<
  <endif>
} <<

>>

testTreeRuleMethod(methodName,testTreeRuleName,testRuleName,test,tokenType,expecting) ::= <<
public void <methodName>() throws Exception {
  // gunit test on line <test.line>
} <

Object retval = execTreeParser(<testTreeRuleName>, <testRuleName>, "<test.inputEscaped>", <test.isFile>);
Object actual = examineExecResult(<tokenType>, retval);
Object expecting = <expecting>;

assertEquals("testing rule "+<testTreeRuleName>, expecting, actual);
}
}

} >>

testTreeRuleMethod2(methodName,testTreeRuleName,testRuleName,test,returnType,expecting) ::= <<
public void <methodName>() throws Exception {
// gunit test on line <test.line>
<returnType> retval = (<returnType>)execTreeParser(<testTreeRuleName>, <testRuleName>,
"<test.inputEscaped>", <test.isFile>);

assertTrue("testing rule "+<testTreeRuleName>, <expecting>);
}
}

} >>

testRuleMethod(isLexicalRule,methodName,testRuleName,test,tokenType,expecting) ::= <<
public void <methodName>() throws Exception {
// gunit test on line <test.line>
Object retval = <if(isLexicalRule)>execLexer<else>execParser<endif>(<testRuleName>, <test.line>,
"<test.inputEscaped>", <test.isFile>);
Object actual = examineExecResult(<tokenType>, retval);
Object expecting = <expecting>;

assertEquals("testing rule "+<testRuleName>, expecting, actual);
}
}

} >>

testRuleMethod2(methodName,testTreeRuleName,test,returnType,expecting) ::= <<
public void <methodName>() throws Exception {
// gunit test on line <test.line>
<returnType> retval = (<returnType>)execParser(<testRuleName>, <test.line>, "<test.inputEscaped>",
<test.isFile>);

assertTrue("testing rule "+<testRuleName>, <expecting>);
}
}

} >>

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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/ITestCaseOutput.java
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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseEditController.java
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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/gUnitExecutor.java
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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseInputMultiString.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/AbstractInputEditor.java
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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/StatusBarController.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseInputFile.java
1.342 error_prone_annotations 2.3.4

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/
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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/NoAllocation.java

1.343 netty-codec 4.1.72.Final

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/LzfFrameEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec.HeadersUtils.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/ProtocolDetectionState.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io.netty.handler.codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

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A decoder that splits the received ByteBufs dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0 (= do not strip header)
```

Because we can get the length of the content by calling ByteBuf#readableBytes(), you might want to strip the length field by specifying initialBytesToStrip. In this example, we specified initialBytesToStrip, that is same with the length of the length field, to strip the first two bytes.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
* +-----------------------------+-----------------------------+
* | Length | Actual Content |------>| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +-----------------------------+-----------------------------+
* </pre>
*
* \texttt{<h3>2 bytes length field at offset 0, do not strip header, the length field}
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \texttt{lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by \texttt{2</tt>, we specify \texttt{-2</tt>
* as \texttt{lengthAdjustment</tt> for compensation.
* \texttt{<pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* \texttt{<b>length Adjustment</b>}   = \texttt{-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>
*
* \texttt{<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \texttt{lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \texttt{<pre>
* \texttt{<b>lengthFieldOffset</b>}   = \texttt{2</b> (= the length of Header 1)
* \texttt{<b>lengthFieldLength</b>}   = \texttt{3</b>
* \texttt{lengthAdjustment}   = 0
* initialBytesToStrip = 0
* </pre>
*
* \texttt{<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2 (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                        AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
| 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</pre>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToSkip`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
+-------------+----------------+-------------+      +-------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-------------+----------------+-------------+      +-------------+----------------+
</pre>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToSkip`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
+-------------+----------------+-------------+      +-------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-------------+----------------+-------------+      +-------------+----------------+
</pre>
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

We have to count the length of HDR1 and Length into lengthAdjustment.<tt>lengthAdjustment</tt>. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

<tt>
lengthFieldOffset = 1
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
<b>initialBytesToStrip</b> = <b>3</b>

BEFORE DECODE (16 bytes)                                    AFTER DECODE (13 bytes)
+-------+--------+-------+---------------------------------+---->+-------+---------------------------------+
| HDR1  | Length  | HDR2  | Actual Content                  |    | HDR2  | Actual Content                  |
| 0xCA  | 0x0010  | 0xFE  | "HELLO, WORLD"                  |    | 0xFE | "HELLO, WORLD"                  |
+-------+--------+-------+---------------------------------+---->+-------+---------------------------------+
</tt>

@see LengthFieldPrepender

*/

Found in path(s):
*/opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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*/opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
*/opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java

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/*
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
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* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/base64/Base64.java
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  jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/bytes/ByteARRAYDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/JZlibEncoder.java

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
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 * Base64 Encoder/Decoder</a>.
 */

Found in path(s):
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/Headers.java

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/ByteBufCheckCheckSum.java
*/
1.344 snake-yaml 2.3

1.344.1 Available under license:

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Manifest-Version: 1.0
Automatic-Module-Name: org.snakeyaml.engine.v2
Bnd-LastModified: 1618842641913
Build-Jdk: 11.0.10
Built-By: somov
Bundle-Description: Core YAML 1.2 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-MANIFESTVERSION: 2
Bundle-Name: SnakeYAML Engine
Bundle-SymbolicName: org.snakeyaml.engine
Bundle-Version: 2.3.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.snakeyaml.engine.v2.api;version="2.3",org.snakeyaml.engine.v2.api.lowlevel;version="2.3",org.snakeyaml.engine.v2.comments;version="2.3",org.snakeyaml.engine.v2.common;version="2.3",org.snakeyaml.engine.v2.constructor;version="2.3",org.snakeyaml.engine.v2.emitter;version="2.3",org.snakeyaml.engine.v2.env;version="2.3",org.snakeyaml.engine.v2.exceptions;version="2.3",org.snakeyaml.engine.v2.nodes;version="2.3",org.snakeyaml.engine.v2.parser;version="2.3",org.snakeyaml.engine.v2.representer;version="2.3",org.snakeyaml.engine.v2.resolver;version="2.3",org.snakeyaml.engine.v2.scanner;version="2.3",org.snakeyaml.engine.v2.serializer;version="2.3",org.snakeyaml.engine.v2.tokens;version="2.3"
Import-Package: org.snakeyaml.engine.v2.api;version="[2.3,3)",org.snakeyaml.engine.v2.comments;version="[2.3,3)",org.snakeyaml.engine.v2.constructor;version="[2.3,3)",org.snakeyaml.engine.v2.emitter;version="[2.3,3)",org.snakeyaml.engine.v2.exceptions;version="[2.3,3)",org.snakeyaml.engine.v2.parser;version="[2.3,3)",org.snakeyaml.engine.v2.representer;version="[2.3,3)",org.snakeyaml.engine.v2.resolver;version="[2.3,3)",org.snakeyaml.engine.v2.scanner;version="[2.3,3)",org.snakeyaml.engine.v2.serializer;version="[2.3,3)",org.snakeyaml.engine.v2.tokens;version="[2.3,3)
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

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1.345 jaxb-core 2.3.3
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1.346 commons-http-client 3.1.0

1.347 activemq-leveldb-store 5.15.9
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1.348 sparsebitset 1.2
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1.349 libpng 1.6.37
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1.352 py3-cachecontrol 0.12.10-r0

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   Metadata-Version: 2.1
   Name: CacheControl
   Version: 0.12.10
Summary: httplib2 caching for requests
Home-page: https://github.com/ionrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
License: UNKNOWN
Description: ..

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==============
CacheControl
==============

.. image:: https://img.shields.io/pypi/v/cachecontrol.svg
   :target: https://pypi.python.org/pypi/cachecontrol
   :alt: Latest Version

.. image:: https://travis-ci.org/ionrock/cachecontrol.png?branch=master
   :target: https://travis-ci.org/ionrock/cachecontrol

CacheControl is a port of the caching algorithms in httplib2_ for use with
requests_ session object.

It was written because httplib2's better support for caching is often
mitigated by its lack of thread safety. The same is true of requests in
terms of caching.

Quickstart
==========

.. code-block:: python

    import requests

    from cachecontrol import CacheControl

    sess = requests.session()
    cached_sess = CacheControl(sess)

    response = cached_sess.get('http://google.com')

If the URL contains any caching based headers, it will cache the
result in a simple dictionary.

For more info, check out the docs_
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.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Topic :: Internet :: WWW/HTTP
Requires-Python: >=3.6
Provides-Extra: redis
Provides-Extra: filecache

Found in path(s):
* /opt/cola/permits/1233822538_1645727267.35/0/cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/PKG-INFO
* /opt/cola/permits/1233822538_1645727267.35/0/cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO

1.353 visual-studio-runtime 14.00.24210.0

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%% winjs version 4.4.0 (https://github.com/winjs/winjs)

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WinJS

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 */

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* /opt/cola/permits/1313350751_1650565871.15/0/netty-transport-sctp-4-1-75-final-sources-2-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1313350751_1650565871.15/0/netty-transport-sctp-4-1-75-final-sources-2-jar/com/sun/nio/sctp/SctpStandardSocketOptions.java
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* /opt/cola/permits/1313350751_1650565871.15/0/netty-transport-sctp-4-1-75-final-sources-2.jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java

1.356 py3-pip 20.3.4-r1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
A. HISTORY OF THE SOFTWARE

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

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

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

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

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* /opt/cola/permits/1340819498_1654719892.7549443/0/vertx-grpc-4-2-7-sources-1-
jar/io/vertx/grpc/VertxServer.java
* /opt/cola/permits/1340819498_1654719892.7549443/0/vertx-grpc-4-2-7-sources-1-jar/io/vertx/grpc/stub/StreamObserverReadStream.java
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* /opt/cola/permits/1340819498_1654719892.7549443/0/vertx-grpc-4-2-7-sources-1-jar/io/vertx/grpc/stub/ServerCalls.java
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* /opt/cola/permits/1340819498_1654719892.7549443/0/vertx-grpc-4-2-7-sources-1-jar/io/vertx/grpc/ContextServerInterceptor.java

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 */

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* /opt/cola/permits/1340819498_1654719892.7549443/0/vertx-grpc-4-2-7-sources-1-jar/io/vertx/grpc/package-info.java

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  jar/io/vertx/grpc/stub/GrpcWriteStream.java

1.366 struts-taglib 1.3.10

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* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
jar/org/springframework/core/io/VfsResource.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
jar/org/springframework/util/ReflectionUtils.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
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jar/org/springframework/util/SerializationUtils.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
jar/org/springframework/core/serializer/DefaultDeserializer.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
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jar/org/springframework/core/ConstantException.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
jar/org/springframework/core/AttributeAccessor.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1136704111_1613864460.76/0/spring-core-3-0-5-release-sources-3-
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jar/org/springframework/util/comparator/InvertibleComparator.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java 
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java 
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java 
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java 
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingLock.java 

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/** 
* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
*/

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jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/Cache.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/EmptyContiguousSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/Enums.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODo(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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 */
/**
* Holder for web specializations of methods of `Ints`. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ForwardingNavigableMap.java
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/Multisets.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractSetMultimap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractMapBasedMultimap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractListMultimap.java
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jar/com/google/common/collection/Ordering.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30.0-jre-sources.jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30.0-jre-sources.jar/com/google/common/collect/Atomics.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30.0-jre-sources.jar/com/google/common/collect/SortedLists.java
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*  /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/ContiguousSet.java
*  /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
*  /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/util/concurrent/Monitor.java
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*  /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/cache/LongAddables.java
*  /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/reflect/MutableTypeToInstanceMap.java
*  /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/reflect/Invokable.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/ByteSink.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/BaseEncoding.java

jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/Platform.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableEntry.java
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* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
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 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

Found in path(s):
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/Striped.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/escape/Escaper.java
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
* 
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
* ImmutableSortedMap#of(Comparable, Object)}.{}</b>
*/

Found in path(s):
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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jar/com/google/common/collection/MultimapBuilder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/io/MoreFiles.java
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 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/CommonMatcher.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/PatternCompiler.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/JdkPattern.java
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 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/GraphConstants.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/AbstractNetwork.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/EdgesConnecting.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Absent.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TreeRangeSet.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/primitives/ParseRequest.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/Striped64.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/PatternCompiler.java

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jar/com/datastax/oss/driver/shaded/guava/common/graph/EndpointPair.java
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jar/com/datastax/oss/driver/shaded/guava/common/graph/UndirectedNetworkConnections.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/graph/EdgesConnecting.java
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jar/com/datastax/oss/driver/shaded/guava/common/graph/GraphConnections.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/Comparators.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/graph/MapRetrievalCache.java
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/*
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/graph/SmallCharMatcher.java

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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
 * key.</b> Proper calls will resolve to the version in { @code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {link
 * ImmutableSortedMap#of(Comparable, Object)}. </b>
 */

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeToken.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Supplier.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/base/internal/Finalizer.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/net/PercentEscaper.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/primitives/Floats.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/graph/PredecessorsFunction.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/graph/ImmutableNetwork.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/graph/MutableGraph.java

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jar/com/datastax/oss/driver/shaded/guava/common/collection/GwtTransient.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collection/AtomicLongMap.java
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jar/com/datastax/oss/driver/shaded/guava/common/io/BaseEncoding.java
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jar/com/datastax/oss/driver/shaded/guava/common/math/PairedStats.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ServiceManager.java
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jar/com/datastax/oss/driver/shaded/guava/common/reflect/AbstractInvocationHandler.java
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jar/com/datastax/oss/driver/shaded/guava/common/reflect/Element.java
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jar/com/datastax/oss/driver/shaded/guava/common/hash/SipHashFunction.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/cache/LongAddables.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/math/PariedStatsAccumulator.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeCapture.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/RateLimiter.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingNavigableSet.java
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http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableTable.java

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As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's java.util.HashMap class.

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jar/com/datastax/oss/driver/shaded/guava/common/collection/ForwardingImmutableCollection.java
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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml
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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/TcpDnsQueryContext.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
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  jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
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  jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/DnsQueryContext.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/NoopDnsCache.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
  jar/io/netty/resolver/dns/DefaultDnsCache.java
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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsCacheEntry.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
1.380 apache-servicemix-specs-locator 1.2.0

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1.381 beanshell 2.0b4

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/**
   Print the string value of the argument, which may be of any type.
   If beanshell is running interactively, the output will always go to the command line, otherwise it will go to System.out.
   <p>

   Most often the printed value of an object will simply be the Java
toString() of the object. However if the argument is an array the contents of the array will be (recursively) listed in a verbose way.

<p>
Note that you are always free to use System.out.println() instead of print().

*/

Found in path(s):
* /opt/cola/permits/1000060130_1646171457.83/0/bsh-2-0b4-jar/bsh/commands/print.bsh

1.382 nose 1.3.7

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* */

Found in path(s):
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.388 minlog 1.3.0
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1.390 httpcomponents-client 4.5.13

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1.394 zlib 1.2.12-r1

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version 1.2.12, March 11th, 2022

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
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1.395 openssl 1.1.1n-r0
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 * <p>This package and related packages are discussed in Chapter 9 of
 */

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*/
/**
 * [@link LobHandler] implementation for Oracle databases. Uses proprietary API
 * to create `<code>oracle.sql.BLOB</code>` and `<code>oracle.sql.CLOB</code>`
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 * <p>While most databases are able to work with [@link DefaultLobHandler],
 * Oracle just accepts Blob/Clob instances created via its own proprietary
 * BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need
 * to use a strategy like this LobHandler implementation.
 * <p>Needs to work on a native JDBC Connection, to be able to cast it to
 * `<code>oracle.jdbc.OracleConnection</code>`. If you pass in Connections from a
 * connection pool (the usual case in a J2EE environment), you need to set an
 * appropriate [@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]
 * to allow for automatical retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 * <p>Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
 * this as eager-initializing singleton if you do not want to depend on the Oracle
 * JAR being in the class path: use "lazy-init=true" to avoid this issue.
 * 
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 04.12.2003
 * @see #setNativeJdbcExtractor
 * @see oracle.sql.BLOB
 * @see oracle.sql.CLOB
 */

Found in path(s):
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3.0.5-release-sources-1-
jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
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jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/SqlProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
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/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBjects.
 * Its main purpose is to isolate Oracle's peculiar handling of LOBs in
 * [@link OracleLobHandler]; most other databases should be able to work
 * with the provided [@link DefaultLobHandler].
* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
* 
* <p>Most databases/drivers should be able to work with [@link DefaultLobHandler],
* which by default delegates to JDBC's direct accessor methods, avoiding the
* <code>java.sql.Blob</code> and <code>java.sql.Clob</code> API completely.
* [@link DefaultLobHandler] can also be configured to access LOBs using
* <code>PreparedStatement.setBlob/setClob</code> (e.g. for PostgreSQL), through
* setting the [@link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.
* 
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* [@link OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g JDBC driver should basically work with
* [@link DefaultLobHandler] as well, with some limitations in terms of LOB sizes.
* 
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
* 
* <p>Summarizing the recommended options (for actual LOB fields):
* <ul>
* <li><b>JDBC 4.0 driver:</b> [@link DefaultLobHandler] with <code>streamAsLob=true</code>.
* <li><b>PostgreSQL:</b> [@link DefaultLobHandler] with <code>wrapAsLob=true</code>.
* <li><b>Oracle 9i/10g:</b> [@link OracleLobHandler] with a connection-pool-specific
*     connection-pool-specific <code>NativeJdbcExtractor</code>.
* <li>For all other database drivers (and for non-LOB fields that might potentially
*     turn into LOBs on some databases): a plain [@link DefaultLobHandler].
* </ul>
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciStream
* @see java.sql.ResultSet#getCharacterStream
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  jar/org/springframework/jdbc/support/lob/LobHandler.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/DataSourceInitializer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
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  jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/DataSourceInitializer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/BeanPropertyRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/ParameterizedBeanPropertyRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/Embedded/HsqlEmbeddedDatabaseConfigurer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
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  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
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  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
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  jar/org/springframework/jdbc/core/simple/SimpleJdbcTemplate.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/ParameterDisposer.java
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/**
 * Strategy interface for translating between [@link SQLException SQLExceptions]
 * and Spring's data access strategy-agnostic [@link DataAccessException]
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * [@link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */

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/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */

/**
 * Create a Map of input parameters, keyed by name.
 * @param con JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @throws SQLException if a SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 * @return Map of input parameters, keyed by name (never <code>null</code>)
 */

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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/object/GenericSqlQuery.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1.jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
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1.402 mockito-core 3.3.3
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1.404 object-cache-api 0.8.4-Beryllium-SR4

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1.407 shadow 4.8.1-r0

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1.409 slf4j 1.7.30

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1.410 py3-setuptools 52.0.0-r4

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1.411 tcconfig 3.7.0

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

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

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

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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History

------

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The packages:

com.hazelcast.internal.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).

The class com.hazelcast.internal.util.HashUtil contains code originating
from the Koloboke project (https://github.com/OpenHFT/Koloboke).

The class classloading.ThreadLocalLeakTestUtils contains code originating
from the Tomcat project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating
from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating
from minimal-json project (https://github.com/ralfstx/minimal-json).

The class com.hazelcast.instance.impl.MobyNames contains code originating
from The Moby Project (https://github.com/moby/moby).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder contains code
originating from The JGraphT Project (https://github.com/jgrapht/jgrapht).

The packages:
com.hazelcast.sql
com.hazelcast.jetsql

contain code originating from the Apache Calcite (https://github.com/apache/calcite)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains
code derived from the Apache Flink project.


# Jackson JSON processor

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* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
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* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-
  jar/io/netty/resolver/InetSocketAddressResolver.java

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* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/package-info.java

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* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/ResolvedAddressTypes.java

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* @(#)MimeTypeFile.java1.8 05/11/16
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Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-
  jar/com/sun/activation/registries/MimeTypeFile.java
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*/ @(#)MailcapParseException.java 1.4 05/11/16
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*/
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1.421 wget 1.20.3-r1

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/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * {code createEntityManager} call (may be {@code null})
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
 */

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* /opt/cola/permits/1136415974_1613765439.48/0/spring-orm-4-3-7-release-sources-3-jar/org/springframework/orm/jdo/TransactionAwarePersistenceManagerFactoryProxy.java
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* /opt/cola/permits/1136415974_1613765439.48/0/spring-orm-4-3-7-release-sources-3-jar/org/springframework/orm/hibernate4/HibernateOptimisticLockingFailureException.java
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1.431 surefire-api 2.20.1

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1.432 hazelcast-all 4.1.1

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1.433 aether-api 1.12

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* javassist/tools/reflect/CannotReflectException.java
* javassist/tools/rmi/AppletServer.java
* javassist/compiler/ast/FieldDecl.java
* javassist/bytecode/stackmap/TypeTag.java
* javassist/bytecode/InnerClassesAttribute.java
* javassist/bytecode/MethodInfo.java
* javassist/compiler/ast/ASTree.java
* javassist/bytecode/ConstantAttribute.java
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SNMP4J - TransportMapping.java

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SNMP4J - DefaultTcpTransportMapping.java

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SNMP4J - TreeEvent.java

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1.446 commons-compiler 3.0.11

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* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.java
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* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/LocatedException.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/samples/ScriptDemo.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/ICompilerFactory.java
* /opt/cola/permits/1258887677_1643120591.13/0/commons-compiler-3-0-11-sources-jar/org/codehaus/commons/compiler/Location.java
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1.455 python-setuptools 3.10.0-2.ph4

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

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

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

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1.457 jetty-security 9.4.11.v20180605

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* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources.jar/org/eclipse/jetty/security/authentication/ClientCertAuthenticator.java
* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources.jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
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* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources.jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
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* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources.jar/org/eclipse/jetty/security/SpnegoUserIdentity.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsAddressDecoder.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsCacheEntry.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java

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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/package-info.java
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1.460 curl 7.69.1-r1

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

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.
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## MIT Kerberos

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## Heimdal

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## GNU GSS

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

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1.461 hk2 2.6.1

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1.466 jbosstrmiapi 1.0.6.Final

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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
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* *
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
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* */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedMap.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/MultimapBuilder.java

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jar/com/google/common/collct/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collct/IndexedImmutableSet.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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/*
* This following method is a modified version of one found in
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jar/com/google/common/cache/Striped64.java
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/*
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Dispatcher.java
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jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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jar/com/google/common/base/MoreObjects.java

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jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/GeneralRange.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/Platform.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/package-info.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ContiguousSet.java
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 */

/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/AbstractSequentialIterator.java
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  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
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  jar/com/google/common/collection/SortedMapDifference.java
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  jar/com/google/common/collection/MinMaxPriorityQueue.java
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  jar/com/google/common/collection/ForwardingListMultimap.java
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * @param c the collection for which to return an array of elements
 */

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jar/com/google/common/collect/ObjectArrays.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/JdkPattern.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/thirdparty/pubsuffix/PublicSuffixType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableSortedAsList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableSortedAsList.java
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  jar/com/google/common/hash/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/primitives/Primitives.java
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  jar/com/google/common/io/LineReader.java
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  jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Objects.java
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  jar/com/google/common/base/Defaults.java
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  jar/com/google/common/util/concurrent/package-info.java
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  jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Subscribe.java
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  jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/EnumMultiset.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/HashBiMap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Preconditions.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ImmutableNetwork.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Graph.java
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jar/com/google/common/collect/SortedMultiset.java
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jar/com/google/common/util/concurrent/RateLimiter.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/SingletonImmutableBiMap.java
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1.485 python-certifi 2020.4.5.1

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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@(#)$RCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $

1.486 cas-client-core 3.2.1
1.487 Slf4j 1.5.8-PATCHED

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1.488 Postgresql14 14.4-r0

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* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelId.java

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jar/io/netty/handler/codec/http2/Http2FrameListener.java

1.493 libtls-standalone 2.9.1-r1
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1.494 java-nats-streaming 2.2.3

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  jar/io/nats/streaming/examples/benchmark/Sample.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/ConnectionLostHandler.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/package-info.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/examples/benchmark/Utils.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/examples/benchmark/SubscriptionImpl.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/SubscriptionImpl.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/StreamingConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/StreamingConnection.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/SubscriptionImpl.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-
  jar/io/nats/streaming/Message.java
1.495 bouncycastle-fips 1.0.2

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1.496 toml 0.10.1

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1.497 netty-codec-socks 4.1.75.Final

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  jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java

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  jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequestDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/SocksMessage.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/socksx/UnknownSocksResponse.java
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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v5/AbstractSocksMessage.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v4/package-info.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v4/Socks4Message.java
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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v5/Socks5InitialRequestDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v5/Socks5InitialResponseDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v5/Socks5ClientEncoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/v5/AbstractSocks5Message.java
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1.498 terracotta-toolkit-${toolkit-api-version}-impl 1.6-5.4.0

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* /opt/cola/permits/1249205422_1643168007.86/0/netty-all-4-1-72-final-jar/META-INF/maven/io.netty/netty-all/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.72.Final
Built-By: norman
Bnd-LastModified: 1639396275971
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DOCURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution=optional,org.eclipse.jetty.npn;version="[1,2)",resolution=optional,org.eclipse.jetty.alpn;version="[1,2)",resolution=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/All-in-One
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/agent/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/apt/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/DelombokApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/AppleNativeLook.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/AccessLevel.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/CorruptedIdeLocationException.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/WindowsDriveInfo.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/runtimeDependencies/RuntimeDependencyInfo.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/LombokApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/EclipseASTAdapter.java

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zip/lombok/javac/handlers/singualrs/JavacGuavaListSingularizer.java

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zip/lombok/eclipse/agent/PatchValEclipse.java
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  zip/lombok/javac/handlers/HandleConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/LombokFileObjects.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/agent/PatchVal.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/HandleVal.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/bytecode/ClassFileMetaData.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/InterceptingJavaFileManager.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/HandleVal.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/var.java
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  zip/lombok/javac/CompilerMessageSuppressor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java7/CommentCollectingScannerFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java8/CommentCollectingScannerFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java7/CommentCollectingScanner.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java6/CommentCollectingScanner.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java6/CommentCollectingScannerFactory.java

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  zip/lombok/extern/jbosslog/JBossLog.java
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  zip/lombok/javac/handlers/HandleFieldDefaults.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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  zip/lombok/javac/apt/Java6BaseFileObjectWrapper.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/EmptyLombokFileObject.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/Javac7BaseFileObjectWrapper.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/LombokFileObject.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/InterceptingJavaFileObject.java

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  zip/lombok/eclipse/EclipseImportList.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/configuration/ConfigurationResolver.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/Javac6BasedLombokOptions.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/debug/FileLog.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/configuration/TypeName.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java8/CommentCollectingTokenizer.java
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  zip/lombok/eclipse/Eclipse.java
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  zip/lombok/delombok/DelombokResult.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/EclipseAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/AnnotationValues.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/JavacTreeMaker.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/bytecode/PoolConstantsApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/PublicApiCreatorApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/agent/ExtensionMethodCompletionProposal.java
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  zip/lombok/javadoc/ResolutionResetNeeded.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/HandlerPriority.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javadoc/handlers/JavacResolver.java

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  zip/lombok/javac/Javac9BasedLombokOptions.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/PackageName.java

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  zip/lombok/eclipse/agent/PatchExtensionMethod.java
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  zip/lombok/javac/handlers(HandleAccessors.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/debug/DebugSnapshot.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/debug/package-info.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/debug/DebugSnapshotStore.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/delombok/FormatPreferences.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/experimental/Wither.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/experimental/ExtensionMethod.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/Javac8BasedLombokOptions.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/ConfigurationKeys.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/extern/log4j/Log4j2.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/java9/CommentCollectingParser.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/java9/CommentCollectingParserFactory.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Generated.java
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zip/lombok/core/handlers/Singulars.java
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  zip/lombok/javac/apt/Javac9BaseFileObjectWrapper.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/extern/java/Log.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/eclipse/handlers/HandleConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/val.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/BubblingConfigurationResolver.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/ExampleValueString.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/handlers/HandleAccessors.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/handlers/package-info.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-azure/lombok/eclipse/handlers/SetGeneratedByVisitor.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/bytecode/PreventNullAnalysisRemover.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/agent/PatchDelegate.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/bytecode/SneakyThrowsRemover.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/singulars/EclipseJavaUtilMapSingularizer.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/javac/FindTypeVarScanner.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/installer/UninstallException.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/javac/apt/MessagerDiagnosticsReceiver.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/core/handlers/SneakyThrowsAndCleanupDependencyInfo.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/IdeLocation.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/STSLocationProvider.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/EclipseLocationProvider.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/EclipseProductLocationProvider.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/OsUtils.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/handlers/HandleGetter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/IdeLocationProvider.java

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zip/lombok/javac/JavacASTVisitor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/TransformEclipseAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseNode.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/PrintAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseASTVisitor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseAnnotationHandler.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseASTVisitor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseAnnotationHandler.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseASTVisitor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/EclipseAnnotationHandler.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/launch/ShadowClassLoader.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/LombokTestSource.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/configuration/FileSystemSourceCache.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/rhdsLocationProvider.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/LombokInternalAliasing.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/handlers/HandlerUtil.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/HandleBuilder.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/HandleBuilder.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/transform/TestWithDelombok.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/transform/TestSourceFiles.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/TypeLibrary.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/ant/DelombokTask.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/ant/DelombokTaskImpl.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/agent/EclipsePatcher.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/TypeResolver.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/transform/TestWithEcj.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/HandlerLibrary.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/handlers/HandlePrintAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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zip/lombok/bytecode/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/AgentLauncher.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/handlers/HandleCleanup.java
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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources.jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources.jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources.jar/com/google/errorprone/annotations/CompatibleWith.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/util/SorterTemplate.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/FieldVisitorTee.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedValue.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanException.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassReaderGenerator.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformer.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastConstructor.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/CodeGenerationException.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/Predicate.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/TinyBitSet.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/util/ParallelSorterEmitter.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoader.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/NamingPolicy.java
* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassNameReader.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptor.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanCopier.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
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* /opt/cola/permits/1000765526_1651084666.01/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java
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  */opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-
  jar/io/grpc-okhttp/internal/DistinguishedNameParser.java
  */opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-
  jar/io/grpc-okhttp/internal/OptionalMethod.java
  */opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-
  jar/io/grpc-okhttp/internal/OkHostnameVerifier.java
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  jar/io/grpc-okhttp/internal/framed/Settings.java
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* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1.jar/io/grpc-okhttp/internal/TlsVersion.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1.jar/io/grpc-okhttp/internal/ConnectionSpec.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1.jar/io/grpc-okhttp/internal/CipherSuite.java

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  jar/io/grpc/okhttp/internal/framed/Variant.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-
  jar/io/grpc/okhttp/internal/framed/Http2.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-
  jar/io/grpc/okhttp/internal/framed/ErrorCode.java
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* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/internal/framed/FrameWriter.java
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* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpChannelBuilder.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpReadableBuffer.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpTlsUpgrader.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpTransport.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/Headers.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/TlsUpgrader.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/Utils.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpClientStream.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OutboundFlowController.java
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**maven-core (3.5.2)**
maven-plugin-annotations (3.5)

maven-plugin-api (3.5.2)

maven-resolver-api (1.1.1)

maven-resolver-api (1.1.1)

maven-resolver-connector-basic (1.1.1)

maven-resolver-impl (1.1.1)

maven-resolver-spi (1.1.1)

maven-resolver-transport-file (1.1.1)

maven-resolver-util (1.1.1)

maven-settings (3.5.2)
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* Project: https://codehaus-plexus.github.io/plexus-archiver/
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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tnative/AsyncSSLPrivateKeyMethod.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tnative/AsyncSSLPrivateKeyMethodAdapter.java
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    jar/io/netty/internal/tnative/SniHostNameMatcher.java
  * /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
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  jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSLSessionCache.java
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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSL.java
jar/io.netty/internal/tnative/Library.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tnative/Buffer.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tnative/SSLContext.java
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jar/io/netty/internal/tnative/SSLPriPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tnative/SSLPriPrivateKeyMethod.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tnative/SSLCertificateVerifierTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tnative/SSLPriPrivateKeyMethodSignTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tnative/SSLPriPrivateKeyMethodTask.java
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1.531 thirdparty-api 1.3.0

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SNMP4J 2 - ConsoleLogFactory.java

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/* Javadoc forAssignableFromString.java */

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/* Javadoc for PduHandleCallback.java */

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1.536 commons-pool 1.6

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1.538 py3-contextlib 21.6.0-r1

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

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1.546 jaxb-core 2.3.6

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<p>
Class, field, and method level annotations for describing thread-safety policies.
</p>

<p>
Three class-level annotations describe the <em>intended</em> thread-safety promises of a class: <code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>. <code>@Immutable</code> means that the class is immutable, and implies <code>@ThreadSafe</code>. <code>@NotThreadSafe</code> is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use <code>@NotThreadSafe</code>.
</p>

<p>
These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with <code>@Immutable</code> actually is immutable.
</p>

<h2>Field and method annotations</h2>
The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

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  jar/net/jcip/annotations/ThreadSafe.java
* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2-
  jar/net/jcip/annotations/GuardedBy.java
* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2-
  jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1135913176_1613629761.33/0/jcip-annotations-1-0-sources-2-
  jar/net/jcip/annotations/NotThreadSafe.java

1.549 colorama 0.4.3
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1.550 jackson-databind 2.13.2.2

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1.551 terracotta-toolkit-runtime 5.4.0

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Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.4",net.bytebuddy.agent.builder;version="1.9.4",net.bytebuddy.asm;version="1.9.4",net.bytebuddy.build;version="1.9.4",net.bytebuddy.description;version="1.9.4",net.bytebuddy.description.annotation;version="1.9.4",net.bytebuddy.description.enumeration;version="1.9.4",net.bytebuddy.description.method;version="1.9.4",net.bytebuddy.description.field;version="1.9.4",net.bytebuddy.description.type;version="1.9.4",net.bytebuddy.dynamic;version="1.9.4",net.bytebuddy.dynamic.loading;version="1.9.4",net.bytebuddy.dynamic.scaffold;version="1.9.4",net.bytebuddy.dynamic.scaffold.inline;version="1.9.4",net.bytebuddy.dynamic.scaffold.subclass;version="1.9.4",net.bytebuddy.implementation;version="1.9.4",net.bytebuddy.implementation.attribute;version="1.9.4",net.bytebuddy.implementation.auxiliary;version="1.9.4",net.bytebuddy.implementation.bind;version="1.9.4",net.bytebuddy.implementation.bind.annotation;version="1.9.4",net.bytebuddy.implementation.bytecode;version="1.9.4",net.bytebuddy.implementation.bytecode.assign;version="1.9.4",net.bytebuddy.implementation.bytecode.assign.primitive;version="1.9.4",net.bytebuddy.implementation.bytecode.assign.reference;version="1.9.4",net.bytebuddy.implementation.bytecode.collection;version="1.9.4",net.bytebuddy.implementation.bytecode.constant;version="1.9.4",net.bytebuddy.implementation.bytecode.member;version="1.9.4",net.bytebuddy.matcher;version="1.9.4",net.bytebuddy.pool;version="1.9.4",net.bytebuddy.utility;version="1.9.4",net.bytebuddy.utility.visitor;version="1.9.4",net.bytebuddy.jar.asm;version="1.9.4",net.bytebuddy.jar.asm.signature;version="1.9.4",net.bytebuddy.jar.asm.commons;version="1.9.4"
Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.4
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_181

Found in path(s):
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/META-INF/MANIFEST.MF

1.553 protobuf-javanano 3.0.0-alpha-5

1.554 proto-google-common-protos 2.0.1
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* /opt/cola/permits/1000468712_1607081013.73/0/opensaml-1-1-406-source-tar-gz/opensaml-1.1.406/src/opensaml-saml2/core/impl/ManageNameIDRequestMarshaller.java
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* /opt/cola/permits/1000468712_1607081013.73/0/opensaml-1-1-406-source-tar-gz/opensaml-1.1.406/repo/opensaml-1.1.406/org/opensaml/xacml/policy/impl/PolicyCombinerParametersTypeImpl.java
* /opt/cola/permits/1000468712_1607081013.73/0/opensaml-1-1-406-source-tar-gz/opensaml-1.1.406/repo/opensaml-1.1.406/org/opensaml/xacml/context/impl/ResourceContentTypeImpl.java
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* /opt/cola/permits/1000468712_1607081013.73/0/opensaml-1-1-406-source-tar-gz/opensaml-1.1.406/repo/opensaml-1.1.406/org/opensaml/xacml/context/impl/ResourceContentTypeImpl.java
1.563 jvm-hotspot-amazon 11.0.7u10

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include/GL/glext.h

include/GL/glxext.h

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include/GL/glxext.h
include/GL/wglxext.h :

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 Enumeration BitString (0-255)

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/**
 * Determines if the contents of a PatternMatcherInput, starting from the
 * current offset of the input contains a pattern.
* If a pattern match is found, a MatchResult instance representing the first such match is made accessible via {@link #getMatch()}. The current offset of the PatternMatcherInput is set to the offset corresponding to the end of the match, so that a subsequent call to this method will continue searching where the last call left off. You should remember that the region between the begin and end offsets of the PatternMatcherInput are considered the input to be searched, and that the current offset of the PatternMatcherInput reflects where a search will start from. Matches extending beyond the end offset of the PatternMatcherInput will not be matched. In other words, a match must occur entirely between the begin and end offsets of the input. See {@link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput} for more details.

* As a side effect, if a match is found, the PatternMatcherInput match offset information is updated. See the PatternMatcherInput setMatchOffsets(int, int) method for more details.

* The pattern must be an AwkPattern instance, otherwise a ClassCastException will be thrown. You are not required to, and indeed should NOT try to (for performance reasons), catch a ClassCastException because it will never be thrown as long as you use an AwkPattern as the pattern parameter.

* This method is usually used in a loop as follows:

```java
PatternMatcher matcher;
PatternCompiler compiler;
Pattern pattern;
PatternMatcherInput input;
MatchResult result;

compiler = new AwkCompiler();
matcher = new AwkMatcher();

try {
  pattern = compiler.compile(somePatternString);
} catch(MalformedPatternException e) {
  System.err.println("Bad pattern.");
  System.err.println(e.getMessage());
  return;
}

input = new PatternMatcherInput(someStringInput);

while(matcher.contains(input, pattern)) {
```
result = matcher.getMatch();
// Perform whatever processing on the result you want.
}

<p>
@exception ClassCastException If a Pattern instance other than an AwkPattern is passed as the pattern parameter.
*/

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 * $Id: NegativeCharacterClassNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/CannotCreateRecordException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java

1.571 libbsd 0.11.3-r1

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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man/unvis.3bsd
man/vis.3bsd
man/wcsclpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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src/getentropy_aix.c
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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import java.io.Serializable;

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

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
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    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);}

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
* created on: 2005jan16
* created by: Markus W. Scherer
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi.props.h/.c.

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-->
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".
Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@stable ICU 2.0

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ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement [ @link Replaceable ] in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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

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* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/transaction/manager/selector/FactorySelector.java
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* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/event/CacheManagerEventListenerFactory.java
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* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/pool/sizeof/MaxDepthExceededException.java
* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/distribution/RMIBootstrapCacheLoader.java
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* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/statistics/sampled/CacheStatisticsSampler.java
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* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/distribution/ConfigurableRMIClientSocketFactory.java
* /opt/cola/permits/100160448_1607083203.24/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/event/CacheEventListenerAdapter.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/KeySnapshotter.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/EhcacheInit.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/PersistenceConfiguration.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/DynamicSearchListener.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/FrontEndCacheTier.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/NullResults.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryOnlyStore.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/StoreQuery.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/FlyweightType.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/TransactionInterruptedException.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/ConfigurationHelper.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/AgentSizeOf.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/ConfigurationUtil.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/elements/PinningConfigurationElement.java
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**
/**
* Returns a list of all element keys in the cache, whether or not they are expired.
* 
* The returned keys are unique and can almost be considered a set. See <link>net.sf.ehcache.store.CacheKeySet</link>
* CacheKeySet for more details.
* 
* The List returned is not live. It is a copy.
* 
* The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
* for each 1000 entries.
* 
* @return a list of <link>Object</link> keys
* @throws IllegalStateException if the cache is not <link>Status#STATUS_ALIVE</link>
* @see net.sf.ehcache.store.CacheKeySet
*/

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ca-bundle.crt -- Bundle of CA Root Certificates

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

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

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principal author, although it includes many contributions from others.

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

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

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1.586 jsch 0.1.55

1.587 checker-compat-qual 2.0.0

1.588 boringssl 2.0.30.Final

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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution=optional,org.eclipse.jetty.npn;version="[1,2)";resolution=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
Open Source Used In Crosswork Common EMS Services 4.0.0  5450

BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=mac
osx;;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tcnative/SSL.java
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1.592 jackson-dataformat-yaml 2.13.2
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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}  
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/ Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
        ],
    }

    setup(**arguments)
```
1.594 client 2.1

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1.595 py3-toml 0.10.1-1.ph4

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1.596 postgresql 42.3.3

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1.597 aop-alliance 2.2.0

1.598 py3-requests 2.26.0-r1

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  jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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  jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/socket/nio/NioChannelOption.java
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jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/bootstrap/ServerBootstrap.java
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jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

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  jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java
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* handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [@link ChannelPipeline].

* <h3>Sub-types</h3>
* <p>
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its subtypes:
* <ul>
* <li> [@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li> [@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li> [@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li> [@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li> [@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>

* &lt;h3&gt;The context object&lt;/h3&gt;
* &lt;p&gt;
* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the
* [@link ChannelPipeline] it belongs to via a context object. Using the
* context object, the [@link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [@link AttributeKey]s) which is specific to the handler.
* 
* &lt;h3&gt;State management&lt;/h3&gt;
* 
* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* &lt;pre&gt;
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; { 
 * 
 * &lt;b&gt;private boolean loggedIn;&lt;/b&gt; 
 * 
 * { @code @Override 
 * public void channelRead0([{ @link ChannelHandlerContext} ctx, Message message) { 
 * if (message instanceof LoginMessage) { 
 *     authenticate((LoginMessage) message); 
 *     &lt;b&gt;loggedIn = true;&lt;/b&gt; 
 * } else (message instanceof GetDataMessage) { 
 *     if (&lt;b&gt;loggedIn&lt;/b&gt;) { 
 *         ctx.writeAndFlush(fetchSecret((GetDataMessage) message)); 
 *     } else { 
 *         fail(); 
 *     } 
 * } 
 * ... 
 * } 
 * } 
 * </pre>
* Because the handler instance has a state variable which is dedicated to 
* one connection, you have to create a new handler instance for each new 
* channel to avoid a race condition where a unauthenticated client can get 
* the confidential information: 
* &lt;pre&gt;
* // Create a new handler instance per channel. 
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;[@link Channel]&gt; { 
* { @code @Override 
* public void initChannel( [@link Channel] channel) { 
*     channel.pipeline().addLast("handler", &lt;b&gt;new DataServerHandler()/&lt;/b&gt;); 
* } 
* } 
* </pre>
* 
* &lt;h4&gt;Using [@link AttributeKey]s&lt;/h4&gt;
* 
* Although it's recommended to use member variables to store the state of a 
* handler, for some reason you might not want to create many handler instances. 
* In such a case, you can use [@link AttributeKey]s which is provided by 
* [@link ChannelHandlerContext]: 
* &lt;pre&gt;
* public interface Message { 
*     // your methods here 
* } 
* 
* { @code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; { 
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth = 
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")}; 
* 
*     { @code @Override } 
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) { 
*         { @link Attribute }&lt;{@link Boolean}&gt; attr = ctx.attr(auth); 
*         if (message instanceof LoginMessage) { 
*             authenticate((LoginMessage) o); 
*             <b>attr.set(true)</b>; 
*         } else (message instanceof GetDataMessage) { 
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) { 
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o)); 
*             } else { 
*                 fail(); 
*             } 
*         } 
*     } 
*     ...
* } } 
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the 
* same handler instance to different pipelines: 
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{@link Channel}&gt; { 
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler(); 
*     { @code @Override } 
*     public void initChannel({@link Channel} channel) { 
*         channel.pipeline().addLast("handler", <b>SHARED</b>); 
*     } 
* } 
* </pre>
* *
* <h4>The { @code @Sharable} annotation</h4>
* *
* In the example above which used an { @link AttributeKey}, 
* you might have noticed the { @code @Sharable} annotation. 
* *
* If a { @link ChannelHandler} is annotated with the { @code @Sharable} 
* annotation, it means you can create an instance of the handler just once and 
* add it to one or more { @link ChannelPipeline}s multiple times without 
* a race condition. 
* *
* If this annotation is not specified, you have to create a new handler 
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.

* This annotation is provided for documentation purpose, just like
  * [a href="http://www.javaconcurrencyinpractice.com/annotations/doc/"]the JCIP annotations</a>.

* <h3>Additional resources worth reading</h3>

* Please refer to the [@link ChannelHandler], and
  * [@link ChannelPipeline] to find out more about inbound and outbound operations,
  * what fundamental differences they have, how they flow in a pipeline, and how to handle
  * the operation in your application.

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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
  * /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java

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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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@heading END OF TERMS AND CONDITIONS
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@end ifinfo

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

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

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to attach them to the start of each source file to most effectively
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@end smallexample

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when it starts in an interactive mode:

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

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
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@example
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
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^L

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

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1.604 cas-server-core 3.4.2

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/**
 * Marker interface for credentials required to authenticate a principal.
 * <p>
 * The Credentials is an opaque object that represents the information a user
 * asserts proves that the user is who it says it is. In CAS, any information
 * that is to be presented for authentication must be wrapped (or implement) the
 * Credentials interface. Credentials can contain a userid and password, or a
 * Certificate, or an IP address, or a cookie value. Some credentials require
 * validation, while others (such as container based or Filter based validation)
 * are inherently trustworthy.
 * <p>
 * People who choose to implement their own Credentials object should take care that
 * any toString() they implement does not accidentally expose confidential information.
 * toString() can be called from various portions of the CAS code base, including logging
 * statements, and thus toString should never contain anything confidential or anything
 * that should not be logged.
 * <p>
 * Credentials objects that are included in CAS do NOT expose any confidential information.
 * <p>
 * @author William G. Thompson, Jr.
 * @version $Revision: 1.2 $ $Date: 2007/01/22 20:35:26 $
 * @since 3.0
 * <p>
 * This is a published and supported CAS Server 3 API.
 * </p>
 */

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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/ticket/registry/support/JdbcLockingStrategy.java
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/ReloadableServicesManager.java
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/principal/PersistentIdGenerator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/principal/GoogleAccountsService.java
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/principal/SamlService.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/principal/AbstractPersonDirectoryCredentialsToPrincipalResolver.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/InMemoryServiceRegistryDaoImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/web/support/CookieRetrievingCookieGenerator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/ServicesManager.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/web/support/GoogleAccountsArgumentExtractor.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/principal/RememberMeUsernamePasswordCredentials.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/principal/RememberMeAuthenticationMetaDataPopulator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/web/RegisteredServiceSimpleFormController.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/DefaultPasswordEncoder.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/UnauthorizedSsoServiceException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/NoOpPrincipalNameTransformer.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/support/AbstractPreAndPostProcessingAuthenticationHandler.java
* /opt/cola/permits/1173229505_16235200018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/DirectMappingAuthenticationManagerImpl.java
* /opt/cola/permits/1173229505_16235200018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/principal/ShibbolethCompatiblePersistentIdGenerator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/principal/RememberMeCredentials.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/ServiceRegistryDao.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/RegisteredService.java
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/RegisteredService.java
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/RegisteredService.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/RegisteredServiceImpl.java

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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/ticket/support/HardTimeoutExpirationPolicy.java
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/support/SimpleTestUsernamePasswordAuthenticationHandler.java
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jar/org/jasig/cas/web/support/SamlArgumentExtractor.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/principal/HttpBasedServiceCredentialsToPrincipalResolver.java
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jar/org/jasig/cas/ticket/support/MultiTimeUseOrTimeoutExpirationPolicy.java
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jar/org/jasig/cas/ticket/registry/support/DefaultTicketRegistryCleaner.java
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jar/org/jasig/cas/web/support/CasArgumentExtractor.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/support/InspektrThrottledSubmissionByIpAddressAndUsernameHandlerInterceptorAdapter.ja
va
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/handler/BadUsernameOrPasswordAuthenticationException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/services/UnauthorizedServiceException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/flow/InitialFlowSetupAction.java

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<td>Main Mesa code</td>
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<td>MIT</td>
</tr>
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<td>MIT, generally</td>
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Gallium code   src/gallium/    MIT

Ext headers       GL/glext.h    Khronos
                  GL/glxext.h    Khronos
                  GL/wglext.h    Khronos
                  KHR/khrplatform.h    Khronos

*****************************************************************************
----
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include/GL/glxext.h
include/GL/wglext.h :

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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The ``Library'', below, refers to any such software library or work
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Library'' means either the Library or any derivative work under
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``Source code'' for a work means the preferred form of the work for
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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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If distribution of object code is made by offering access to copy
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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As an exception to the Sections above, you may also combine or
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.614 log4j-web 2.17.2
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1.615 jax-ws-api 2.3.1
1.615.1 Available under license:

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File: ReaderPreferenceReadWriteLock.java

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History:
Date   Who    What
11Jun99 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ReaderPreferenceReadWriteLock.java
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/*
File: SyncSortedMap.java

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History:
Date   Who    What
1Aug99 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedMap.java
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/*
File: Semaphore.java

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History:
History:

**SemaphoreControlledChannel.java**

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History:

**SynchronizationTimer.java**

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History:
Open Source Used In Crosswork Common EMS Services 4.0.0 5771

Date       Who                What
16Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs
08dec2001  dl               reflective constructor now uses longs too.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SemaphoreControlledChannel.java
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File: Task.java

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History:
Date       Who                What
7Jan1999   dl                 first release
14Jan1999  dl                 simplify start() semantics;
                                improve documentation
18Jan1999  dl                 Eliminate useless time-based waits.
7Mar1999   dl                 Add reset method,
                                add array-based composite operations
27Apr1999  dl                 Rename
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/FJTask.java
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/*
File: LayeredSync.java

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History:
Date       Who                What
1Aug1998   dl                 Create public version
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LayeredSync.java
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File: ClockDaemon.java

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History:
Date    Who    What
29Aug1998 dl    created initial public version
17dec1998 dl    null out thread after shutdown
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ClockDaemon.java
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File: WaitableLong.java

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History:
Date    Who    What
23Jun1998 dl    Create public version
13may2004 dl    Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableLong.java
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File: PooledExecutor.java

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History:
Date       Who                What
19Jun1998  dl               Create public version
29aug1998  dl               rely on ThreadFactoryUser, remove ThreadGroup-based methods, adjusted locking policies
3mar1999   dl               Worker threads sense decreases in pool size
31mar1999  dl               Allow supplied channel in constructor; add methods createThreads, drain
15may1999  dl               Allow infinite keepalives
21oct1999  dl               add minimumPoolSize methods
7sep2000    dl               BlockedExecutionHandler now an interface, new DiscardOldestWhenBlocked policy
12oct2000  dl               add shutdownAfterProcessingCurrentlyQueuedTasks
13nov2000  dl               null out task ref after run
08apr2001  dl               declare inner class ctor protected
12nov2001  dl               Better shutdown support

Blocked exec handlers can throw IE
Simplify locking scheme
{get,set}BlockedExecutionHandler now public
17may2002  dl               null out task var in worker run to enable GC.
30aug2003  dl               check for new tasks when timing out
18feb2004  dl               replace dead thread if no others left

*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PooledExecutor.java
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File: Rendezvous.java

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History:
Date       Who                What
11Jun1998  dl               Create public version
30Jul1998  dl               Minor code simplifications

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
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/
File: Executor.java

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History:
Date  Who     What
19Jun1998  dl     Create public version
/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Executor.java
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History:
Date  Who     What
11Jun1998  dl     Create public version
23nov2001  dl     Replace main algorithm with fairer
version based on one by Alexander Terekhov
/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
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**History:**

<table>
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<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>29Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>4Aug1998</td>
<td>dl</td>
<td>Change to extend InterruptedException</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/TimeoutException.java

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Found in path(s):
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History:
Date   Who       What
14Mar1999 dl    first release
*/

Found in path(s):
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History:
Date   Who       What
21Jun1998 dl    Create public version
*/

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History:
Date   Who    What
19Jun1998 dl  Create public version
15Apr2003 dl  Removed redundant "synchronized" for multiply()
23Jan04  dl   synchronize self-swap case for swap

Found in path(s):
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History:
Date   Who    What
11Jun1998 dl  Create public version
5Aug1998 dl   replaced int counters with longs

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ReentrantLock.java
No license file was found, but licenses were detected in source scan.

/*
File: TimeoutSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
1Aug1998  dl  Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
No license file was found, but licenses were detected in source scan.

/*
File: FJTaskRunner.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
7Jan1999 dl  First public release
13Jan1999 dl  correct a stat counter update;
               ensure inactive status on run termination;
               misc minor cleanup
14Jan1999 dl  Use random starting point in scan;
               variable renamings.
18Jan1999 dl  Runloop allowed to die on task exception;
               remove useless timed join
22Jan1999 dl  Rework scan to allow use of priorities.
6Feb1999 dl   Documentation updates.
7Mar1999 dl   Add array-based coInvoke
31Mar1999 dl  Revise scan to remove need for NullTasks
27Apr1999 dl  Renamed
23oct1999 dl  Earlier detect of interrupt in scanWhileIdling
24nov1999 dl  Now works on JVMs that do not properly
               implement read-after-write of 2 volatiles.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunner.java
No license file was found, but licenses were detected in source scan.

/*
File: Takable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl  Create public version
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Takable.java
No license file was found, but licenses were detected in source scan.

/∗
File: Slot.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl  Create public version
25aug1998 dl  added peek
/∗

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Slot.java
No license file was found, but licenses were detected in source scan.

/∗
File: WaiterPreferenceSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl  Create public version
5Aug1998 dl  replaced int counters with longs
/∗

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaiterPreferenceSemaphore.java
No license file was found, but licenses were detected in source scan.

/∗
File: FutureResult.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who   What
30Jun1998 dl   Create public version
/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/FutureResult.java
No license file was found, but licenses were detected in source scan.

/*
File: CopyOnWriteArrayList.java

Written by Doug Lea. Adapted and released, under explicit
permission, from JDK1.2 ArrayList.java
which carries the following copyright:

* Copyright 1997 by Sun Microsystems, Inc.,
* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
*
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You
* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date   Who   What
21Jun1998 dl   Create public version
9Oct1999 dl   faster equals
29jun2001 dl   Serialization methods now private
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArrayList.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
21Jun1998  dl    Create public version
28Aug1998  dl    factored out ThreadFactoryUser
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadedExecutor.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitFreeQueue.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
16Jun1998  dl    Create public version
5Aug1998  dl    replaced int counters with longs
17Nov2001  dl    Simplify given Bill Pugh's observation that counted pointers are unnecessary.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitFreeQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: Mutex.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998  dl    Create public version
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Mutex.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedPriorityQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>16Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>29aug1998</td>
<td>dl</td>
<td>pulled heap mechanics into separate class</td>
</tr>
</tbody>
</table>
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedPriorityQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>19Jun1998 dl</td>
<td></td>
<td>Create public version</td>
</tr>
<tr>
<td>15Apr2003 dl</td>
<td></td>
<td>Removed redundant &quot;synchronized&quot; for multiply()</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedShort.java

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

/*
File: ReentrantWriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>26aug1998 dl</td>
<td></td>
<td>Create public version</td>
</tr>
<tr>
<td>7sep2000 dl</td>
<td></td>
<td>Readers are now also reentrant</td>
</tr>
<tr>
<td>19jan2001 dl</td>
<td></td>
<td>Allow read-&gt;write upgrades if the only reader</td>
</tr>
<tr>
<td>10dec2002 dl</td>
<td></td>
<td>Throw IllegalStateException on extra release</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantWriterPreferenceReadWriteLock.java

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

/*
File: Callable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>30Jun1998 dl</td>
<td></td>
<td>Create public version</td>
</tr>
<tr>
<td>5Jan1999 dl</td>
<td></td>
<td>Change Exception to Throwable in call signature</td>
</tr>
<tr>
<td>27Jan1999 dl</td>
<td></td>
<td>Undo last change</td>
</tr>
</tbody>
</table>
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Callable.java
No license file was found, but licenses were detected in source scan.

File: PrioritySemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who       What
11Jun1998 dl  Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PrioritySemaphore.java
No license file was found, but licenses were detected in source scan.

File: WaitableRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who       What
19Jun1998 dl  Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableRef.java
No license file was found, but licenses were detected in source scan.

File: LinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl    Create public version
25aug1998 dl    added peek
10Dec1998 dl    added isEmpty
10Oct1999 dl    lock on node object to ensure visibility
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/LinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: ConcurrentHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

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* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
*
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You shall not disclose such Confidential Information and shall use it only in accordance with the terms of the license agreement you entered into with Sun.

History:
Date   Who    What
26Nov2000 dl    Created, based on ConcurrentReaderHashMap
12Jan2001 dl    public release
17Nov2001 dl    Minor tunings
24Oct2003 dl    Segment implements Serializable
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedBuffer.java
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
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<th>Date</th>
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</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>17Jul1998</td>
<td>dl</td>
<td>Simplified by eliminating wait counts</td>
</tr>
<tr>
<td>25Aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>5May1999</td>
<td>dl</td>
<td>replace % with conditional (slightly faster)</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedBuffer.java
No license file was found, but licenses were detected in source scan.

/File: SyncSortedSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>1Aug1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedSet.java
No license file was found, but licenses were detected in source scan.

/File: Channel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
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<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>
25aug1998 dl    added peek
*/

Found in path(s):
*/
File: NullSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who  What
1Aug1998 dl  Create public version
*/

Found in path(s):
*/
File: QueuedSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who  What
11Jun1998 dl  Create public version
5Aug1998 dl  replaced int counters with longs
24Aug1999 dl  release(n): screen arguments
*/

Found in path(s):
*/
File: WaitableChar.java
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
23Jun1998 dl Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableChar.java
No license file was found, but licenses were detected in source scan.

File: SynchronizedByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedByte.java
No license file was found, but licenses were detected in source scan.

File: WaitableByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
23Jun1998 dl Create public version
13may2004 dl Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableByte.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedLinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date        Who    What
11Jun1998   dl      Create public version
17Jul1998   dl      Simplified by eliminating wait counts
25aug1998   dl      added peek
10oct1999   dl      lock on node object to ensure visibility
27jan2000   dl      setCapacity forces immediate permit reconcile
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedLinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: SwingWorker.java

Originally written by Joseph Bowbeer and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.

Originally part of jozart.swingutils.
Adapted for util.concurrent by Joseph Bowbeer.

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/SwingWorker.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronousChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Jun 1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>17 Jul 1998</td>
<td>dl</td>
<td>Disabled direct semaphore permit check</td>
</tr>
<tr>
<td>31 Jul 1998</td>
<td>dl</td>
<td>Replaced main algorithm with one with better scaling and fairness properties.</td>
</tr>
<tr>
<td>25 Aug 1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>24 Nov 2001</td>
<td>dl</td>
<td>Replaced main algorithm with faster one.</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronousChannel.java
No license file was found, but licenses were detected in source scan.

*/

File: ThreadFactory.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 Jun 1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactory.java
No license file was found, but licenses were detected in source scan.

*/

File: Puttable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Jun 1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What
11Jun1998 dl Create public version
5Aug1998 dl Added some convenient time constants

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/Puttable.java
No license file was found, but licenses were detected in source scan.

File: Sync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What
23Jun1998 dl Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/WaitableDouble.java
No license file was found, but licenses were detected in source scan.

File: WaitableDouble.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/DirectExecutor.java
No license file was found, but licenses were detected in source scan.

File: DirectExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who     What
21Jun1998  dl    Create public version

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

File: Heap.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who     What
29Aug1998  dl    Refactored from BoundedPriorityQueue
08Dec2001  dl    Null out slots of removed items
03Feb2002  dl    Also null out in clear

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

File: ConditionVariable.java

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History:
Date   Who     What
11Jun1998  dl    Create public version

No license file was found, but licenses were detected in source scan.
File: SyncMap.java

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and everyone contributing, testing, and using this code.

History:
Date   Who    What
1Aug1998 dl  Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SyncMap.java
No license file was found, but licenses were detected in source scan.

File: WaitableShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
23Jun1998 dl  Create public version
13may2004 dl  Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/WaitableShort.java
No license file was found, but licenses were detected in source scan.

File: ReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date       Who                What
11Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedFloat.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003  dl               Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedFloat.java
No license file was found, but licenses were detected in source scan.

/*
File: FIFOSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FIFOSemaphore.java
No license file was found, but licenses were detected in source scan.
Open Source Used In Crosswork Common EMS Services 4.0.0  5796

History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSet.java
No license file was found, but licenses were detected in source scan.

/*/ File: SynchronizedBoolean.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedBoolean.java
No license file was found, but licenses were detected in source scan.

/*/ File: DefaultChannelCapacity.java

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History:
Date       Who                What
11Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/DefaultChannelCapacity.java
No license file was found, but licenses were detected in source scan.

/
File: LinkedNode.java

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History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25may2000</td>
<td>dl</td>
<td>Change class access to public</td>
</tr>
<tr>
<td>26nov2001</td>
<td>dl</td>
<td>Added no-arg constructor, all public access.</td>
</tr>
</tbody>
</table>

* Found in path(s):
  * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedNode.java

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File: ThreadFactoryUser.java

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History:

<table>
<thead>
<tr>
<th>Date</th>
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<th>What</th>
</tr>
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<tbody>
<tr>
<td>28aug1998</td>
<td>dl</td>
<td>refactored from Executor classes</td>
</tr>
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</table>

* Found in path(s):
  * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactoryUser.java

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

File: WaitableInt.java

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History:

<table>
<thead>
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<tbody>
<tr>
<td>23Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
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</table>
13may2004 dl Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/WaitableInt.java
No license file was found, but licenses were detected in source scan.

File: CountDown.java

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History:
Date Who What
11Jun1998 dl Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/CountDown.java
No license file was found, but licenses were detected in source scan.

File: WriterPreferenceReadWriteLock.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version
5Aug1998 dl replaced int counters with longs
25aug1998 dl record writer thread
3May1999 dl add notifications on interrupt/timeout

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/WriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.
/*
File: FJTaskRunnerGroup.java

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Thanks for the assistance and support of Sun Microsystems Labs,
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History:
Date    Who    What
7Jan1999 dl    First public release
12Jan1999 dl    made getActiveCount public; misc minor cleanup.
14Jan1999 dl    Added executeTask
20Jan1999 dl    Allow use of priorities; reformat stats
6Feb1999 dl    Lazy thread starts
27Apr1999 dl    Renamed
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunnerGroup.java
No license file was found, but licenses were detected in source scan.

<li>All classes are released to the public domain and may be used

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/intro.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/package-summary.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/package.html
No license file was found, but licenses were detected in source scan.

*/

File: Latch.java

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This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/
/*
File: Latch.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Latch.java
No license file was found, but licenses were detected in source scan.

/*
File: Barrier.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Barrier.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedDouble.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedDouble.java
No license file was found, but licenses were detected in source scan.

/*
File: Fraction.java

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History:
Date    Who    What
7Jul1998 dl    Create public version
11Oct1999 dl    add hashCode
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/Fraction.java
No license file was found, but licenses were detected in source scan.

/*
File: ObservableSync.java

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History:
Date    Who    What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ObservableSync.java
No license file was found, but licenses were detected in source scan.

/*
File: ConcurrentReaderHashMap

Written by Doug Lea. Adapted and released, under explicit
permission, from JDK1.2 HashMap.java and Hashtable.java which
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History:
Date       Who                What
28oct1999 dl               Created
14dec1999 dl               jmm snapshot
19apr2000 dl               use barrierLock
12jan2001 dl               public release
17nov2001 dl               Minor tunings
20may2002 dl               BarrierLock can now be serialized.
09dec2002 dl               Fix interference checks.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentReaderHashMap.java
No license file was found, but licenses were detected in source scan.

/ *
File: SyncCollection.java

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History:
Date       Who                What
1Aug1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncCollection.java
No license file was found, but licenses were detected in source scan.

/ *
File: BrokenBarrierException.java

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History:
Date       Who                What
29Jun1998 dl               Create public version
*/

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

/*
File: WaitableFloat.java

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History:
Date Who What
23Jun1998 dl Create public version
*/

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

/*
File: SynchronizedChar.java

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History:
Date Who What
19Jun1998 dl Create public version
*/

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

/*
File: SynchronizedRef.java

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History:
Date Who What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedRef.java
No license file was found, but licenses were detected in source scan.

*/

File: WaitableBoolean.java

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History:
Date Who What
19Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableBoolean.java
No license file was found, but licenses were detected in source scan.

*/

File: SynchronizedVariable.java

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History:
Date Who What
30Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedVariable.java
No license file was found, but licenses were detected in source scan.

*/

File: CyclicBarrier.java
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History:
Date   Who    What
11Jul1998 dl    Create public version
28Aug1998 dl    minor code simplification

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CyclicBarrier.java
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File: PropertyChangeMulticaster.java

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This class is based on Sun JDK java.beans.VetoableChangeSupport, which is copyrighted by Sun. (It shares practically no code, but for consistency, the documentation was lifted and adapted here.)

History:
Date   Who    What
14Mar1999 dl    first release

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PropertyChangeMulticaster.java
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File: SyncList.java

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History:
Date       Who                What
1Aug1998  dl               Create public version
*/

Found in path(s):
 * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/SyncList.java
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/*
File: CopyOnWriteArraySet.java

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and everyone contributing, testing, and using this code.

History:
Date       Who                What
22Jun1998  dl               Create public version
*/

Found in path(s):
 * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArraySet.java
No license file was found, but licenses were detected in source scan.

/*
TimedCallable.java

Originally written by Joseph Bowbeer and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.

Originally part of jozart.swingutils.
Adapted by Doug Lea for util.concurrent.

History:
Date       Who                What
11dec1999  dl               Adapted for util.concurrent
*/

Found in path(s):
 * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/TimedCallable.java
1.617 plexus-utils 2.0.5
1.617.1 Available under license:

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1.618 spring-security-ldap 3.0.0.RELEASE

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* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1-jar/org/springframework/security/ldap/authentication/LdapAuthenticator.java
* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1-jar/org/springframework/security/ldap/userdetails/LdapUserDetailsManager.java
* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1-jar/org/springframework/security/ldap/userdetails/LdapAuthoritiesPopulator.java
* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1-jar/org/springframework/security/ldap/authentication/BindAuthenticator.java
* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1
1.619 netty-tcnative-classes 2.0.51.Final

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* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
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* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
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* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethodAdapter.java
* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/AsyncTask.java

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* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/SSLCertificate.java
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1.625 sh 1.13.1

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1.628 py3-pep 0.8.2-r0

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1.630 spring-web-flow 2.0.8.RELEASE

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jar/org/springframework/webflow/config/FlowRegistryBeanDefinitionParser.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-
jar/org/springframework/webflow/config/FlowExecutionListenerLoaderBeanDefinitionParser.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/test/execution/AbstractXmlFlowExecutionTests.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/execution/factory/ConditionalFlowExecutionListenerLoader.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/model/AbstractStateModel.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/view/BindingModel.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/execution/repoistory/snapshot/SerializedFlowExecutionSnapshot.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/model/AbstractMappingModel.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/definition/registry/FlowDefinitionConstructionException.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/builder/MvcViewFactoryCreator.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/context/portlet/PortletRequestParameterMap.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/test/MockFlowSession.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/definition/FlowDefinition.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/config/FlowDefinitionResourceFactory.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/TargetStateResolver.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/FlowAttributeMappingException.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/execution/repository/support/FlowExecutionStateRestorer.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/definition/registry/FlowDefinitionLocator.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/session/portlet/DefaultFlowUrlHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/sql/DefaultFlowSqlTemplate.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/definition/registry/FlowDefinitionRegistryBuilder.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/definition/registry/FlowDefinitionRegistry.java

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  jar/springfox/documentation/service/SecurityScheme.java
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  jar/springfox/documentation/service/Parameter.java
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  jar/springfox/documentation/service/OAuth.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenRequestEndpoint.java
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* /opt/cola/permits/1138130457_1614265860.95/0/spring-webmvc-portlet-4-3-7-release-sources-2-
jar/org/springframework/web/portlet/mvc/AbstractController.java
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jar/org/springframework/web/portlet/context/PortletConfigPropertySource.java
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jar/org/springframework/web/portlet/context/StandardPortletApplicationContext.java
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jar/org/springframework/web/portlet/context/ConfigurablePortletApplicationContext.java
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jar/org/springframework/web/portlet/HandlerExecutionChain.java
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* /opt/cola/permits/1301917022_1649305452.62/0/netty-transport-classes-kqueue-4-1-75-final-sources-1-
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1.643 management-common-resources-v1

2.1.6

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$Id: BuilderErrorHandler.java,v 1.12 2004/02/06 09:28:31 jhunter Exp $

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$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp$

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$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp $

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$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp $

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$Id: NegateFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp $

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$Id: EscapeStrategy.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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$Id: XSLTransformException.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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*/
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/*--
$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp $

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* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/JDOMException.java
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$Id: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp $

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$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp$

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/SAXHandler.java

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$Id: OracleV2DOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp $

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$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp $

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$Id: XMLOutputer.java,v 1.112 2004/09/01 06:08:18 jhunter Exp $

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$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp $

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$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp $

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*/

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$Id: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp $

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$Id: JAXPParserFactory.java,v 1.5 2004/02/27 21:08:47 jhunter Exp $

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$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp $
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$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp $

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$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp $

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$Id: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp $

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$Id: JDOMFactory.java,v 1.8 2004/09/01 05:25:38 jhunter Exp $

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$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp$

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$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp $

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/*

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/ *--

$Id: IllegalDataException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp $

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* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/FilterIterator.java
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$Id: XML4JDOMAdapter.java,v 1.17 2004/02/06 09:28:31 jhunter Exp $

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Found in path(s):
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$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp$

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$Id: DataConversionException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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  * /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/Format.java

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$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp $

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$Id: XPath.java,v 1.15 2004/02/06 09:28:32 jhunter Exp $

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$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 jhunter Exp $

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1.648 py3-pip 20.1.1-r0

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

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

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

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

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

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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* /opt/cola/permits/1068907082_1604996785.87/0/json-lib-2-3-jdk13-sources-jar/net/sf/json/util/JSONUtils.java
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SNMP4J - Counter32.java

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.snmp4j</groupId>
  <artifactId>snmp4j</artifactId>
  <packaging>jar</packaging>
  <version>3.7.0</version>
  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <project.build.resourceEncoding>UTF-8</project.build.resourceEncoding>
  </properties>
  <developers>
    <developer>
      <name>Frank Fock</name>
    </developer>
  </developers>
</project>
<email>fock@agentpp.com</email>
<organization>AGENTPP</organization>
<organizationUrl>https://agentpp.com</organizationUrl>
</developer>
</developers>
<scm>
<url>scm:git:git@snmp.app:snmp4j.git</url>
<developerConnection>scm:git:git@snmp.app:snmp4j.git</developerConnection>
</scm>
/licenses>
<license>
    <name>Apache 2</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
</license>
</licenses>
<organization>
    <name>SNMP4J.org</name>
    <url>https://snmp4j.org</url>
</organization>
/profiles>
    <id>default</id>
    <distributionManagement>
        <downloadUrl>https://snmp.app/dist</downloadUrl>
        <repository>
            <uniqueVersion>false</uniqueVersion>
            <id>oosnmpRepo</id>
            <name>snmp.app Repository</name>
            <url>dav:https://snmp.app/dist/release</url>
            <layout>default</layout>
        </repository>
        <snapshotRepository>
            <uniqueVersion>false</uniqueVersion>
            <id>oosnmpRepo</id>
            <name>snmp.app Snapshots</name>
            <url>dav:https://snmp.app/dist/snapshot</url>
            <layout>default</layout>
        </snapshotRepository>
    </distributionManagement>
</profiles>
<build>
    <plugins>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-jar-plugin</artifactId>
            <version>3.2.0</version>
            <configuration>
                <archive>
<id>sign-artifacts</id>
<phase>verify</phase>
(goals>
<goal>sign</goal>
</goals>
</execution>
</executions>
<configuration>
<!-- signing key details -->
<keyname>${gpg.keyname}</keyname>
<passphraseServerId>${gpg.keyname}</passphraseServerId>
<gpgArguments>
  <arg>--pinentry-mode</arg>
  <arg>loopback</arg>
</gpgArguments>
</configuration>
</plugin>

<plugin>
<groupId>org.sonatype.plugins</groupId>
<artifactId>nexus-staging-maven-plugin</artifactId>
<version>1.6.7</version>
<extensions>true</extensions>
<configuration>
  <serverId>ossrh</serverId>
  <nexusUrl>https://oss.sonatype.org/</nexusUrl>
  <autoReleaseAfterClose>true</autoReleaseAfterClose>
  <stagingProgressTimeoutMinutes>10</stagingProgressTimeoutMinutes>
</configuration>
</plugin>

</plugins>
</build>
</profile>
</profiles>
<dependencies>
<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>4.13.2</version>
<scope>test</scope>
</dependency>
</dependencies>
</build>

<outputDirectory>classes</outputDirectory>
<extensions>
<extension>
<groupId>org.apache.maven.wagon</groupId>
<artifactId>wagon-webdav-jackrabbit</artifactId>
<version>3.3.4</version>
</extension>
</extensions>
<additionalOptions>-html5 -Xdoclint:-html</additionalOptions>
</configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-compiler-plugin</artifactId>
  <version>3.10.1</version>
  <configuration>
    <source>1.9</source>
    <target>1.9</target>
    <encoding>UTF-8</encoding>
    <compilerArgument>-Xlint:all</compilerArgument>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jar-plugin</artifactId>
  <version>3.2.2</version>
  <configuration>
    <archive>
      <manifest>
        <mainClass>org.snmp4j.tools.console.SnmpCommand</mainClass>
      </manifest>
    </archive>
    <excludes>
      <exclude>classes-test/**</exclude>
    </excludes>
  </configuration>
</plugin>

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  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-assembly-plugin</artifactId>
  <version>3.3.0</version>
  <configuration>
    <descriptors>
      <descriptor>assembly.xml</descriptor>
    </descriptors>
  </configuration>
  <executions>
    <execution>
      <id>make-assembly</id>
      <phase>package</phase>
      <goals>
        <goal>single</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugins>
</plugins>
</build>
</project>

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* /opt/cola/permits/1336062906_1654014326.9861164/0/snmp4j-3-7-0-sources-jar/META-INF/maven/org.snmp4j/snmp4j/pom.xml
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1.653 spring-expression 5.3.18

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

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.657 commons-beanutils 1.9.4

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== asm 1.2.2 ==

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ASM: a very small and fast Java bytecode manipulation framework

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## 1.665 camel-spring 2.19.5

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* /opt/cola/permits/1007687193_1660061556.4588692/0/cargo-core-api-module-1-0-2-sources-jar-xml/zip/cargo-core-api-module-1-0-2-sources-jar/org/codehaus/cargo/module/webapp/WebXml23Type.java

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1.675 netty-resolver-dns-native-macos

4.1.75.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.75.Final
Built-By: norman
Bnd-LastModified: 1646911429197
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version: 4.1.75.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver-dns-native-macos/

Found in path(s):
* /opt/cola/permits/1302235719_1650266808.90/netty-resolver-dns-native-macos-4-1-75-final-jar/META-
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cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
    cd "$_builddir"
    export CFLAGS=" perl -MConfig -E 'say $Config{ccflags}"
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test
}

package() {
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    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" -name perllocal.pod -o -name .packlist -delete
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  _pkgname=flake8-copyright
  pkgver=0.2.0
  pkgrel=0
  pkgdesc="Extension for flake8 which checks for copyrights"
  url="https://github.com/savoirfairelinux/flake8-copyright"
  arch="noarch"
  license="MIT"
  depends="flake8"
  makedepends="python3-dev"
  source="https://files.pythonhosted.org/packages/source/$(_pkgname:0:1)/$._pkgname/$._pkgname-$pkgver.tar.gz"
  builddir="$srcdir/$._pkgname-$pkgver"

  build() {
      cd "$builddir"
python3 setup.py build || return 1
}

package() {
  cd "$builddir"
  python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9ed5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-0.2.0.tar.gz"
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}
build() {
    cd "$_builddir"
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
    || return 1
    make || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="\$cpandepend" 
makedepends="perl-dev \$cpanmakedepends"
subpackages="\$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/\$_pkgreal-$pkgver.tar.gz"

\_builddir="\$srcdir/\$_pkgreal-$pkgver"

prepare() {
  cd "\_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "\_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make && make test || return 1
}

package() {
  cd "\_builddir"
  make DESTDIR="\$pkgdir" install || return 1
  find "\$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f161957e289e8de45af5c79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276ce2b340a429fa430 BSD-Resource-1.2909.tar.gz"
mini_sendmail - accept email on behalf of real sendmail

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  jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
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  jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DefaultDnsResponseCode.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
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  jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
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* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsSection.java
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IllegalArgumentException("Constraint out of range");

2 = DC_CONFIDENTIAL + (_dataConstraint == DC_UNSET ? "DC_UNSET" : (_dataConstraint == DC_NONE ? "NONE" : (_dataConstraint == DC_INTEGRAL ? "INTEGRAL" : "CONFIDENTIAL")));

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constraint.setDataConstraint((transport.equals(TransportGuarantee.CONFIDENTIAL)?Constraint.DC_CONFIDENTIAL:Constraint.DC_NONE)); if (dataConstraint == UserDataConstraint.Confidential || dataConstraint == UserDataConstraint.Integral)

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The packages:

com.hazelcast.internal.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project (https://github.com/real-logic/Agrona).

The class classloading.ThreadLocalLeakTestUtils contains code originating from the Tomcat project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating from minimal-json project (https://github.com/ralfstx/minimal-json).


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1.703 ehcache 2.10.6
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 */
package net.sf.ehcache.store;
import net.sf.ehcache.Element;
import net.sf.ehcache.config.CacheConfiguration;
import net.sf.ehcache.store.compound.ReadWriteCopyStrategy;

/**
 * Copies elements, either on read, write or both before using the underlying store to actually store things
 * When copying both ways, the store might not see the same types being stored
 * @param <T> the store type it wraps
 *
 * @author Alex Snaps
 */
public final class CopyingCacheStore<T extends Store> extends AbstractCopyingCacheStore<T> {

    /**
     * Creates a copying instance of store, that wraps the actual storage
     *
     * @param store                the real store
     * @param copyOnRead           whether to copy on reads
     * @param copyOnWrite          whether to copy on writes
     * @param copyStrategyInstance the copy strategy to use on every copy operation
     * @param loader               classloader of the containing cache
     */
    public CopyingCacheStore(T store, boolean copyOnRead, boolean copyOnWrite,
                               ReadWriteCopyStrategy<Element> copyStrategyInstance, ClassLoader loader) {
        super(store, copyOnRead, copyOnWrite, copyStrategyInstance, loader);
    }

    /**
     * Wraps the Store instance passed in, should any copy occur
     * @param cacheStore the store
     * @param cacheConfiguration the cache config for that store
     * @return the wrapped Store if copying is required, or the Store instance passed in
     */
    public static Store wrapIfCopy(final Store cacheStore, final CacheConfiguration cacheConfiguration) {
        if (requiresCopy(cacheConfiguration)) {
            return wrap(cacheStore, cacheConfiguration);
        }
        return cacheStore;
    }

    /**
     * Wraps (always) with the proper configured CopyingCacheStore
     * @param cacheStore the store to wrap
     * @param cacheConfiguration the cache config backed by this store
     * @param <T> the Store type
     * @return the wrapped store
     */
}
private static <T extends Store> CopyingCacheStore<T> wrap(final T cacheStore, final CacheConfiguration cacheConfiguration) {
    final ReadWriteCopyStrategy<Element> copyStrategyInstance =
    cacheConfiguration.getCopyStrategyConfiguration()
        .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
    return new CopyingCacheStore<T>(cacheStore, cacheConfiguration.isCopyOnRead(),
        cacheConfiguration.isCopyOnWrite(), copyStrategyInstance, cacheConfiguration.getClassLoader());
}

/**
 * Checks whether configuration enables copying
 *
 * @param cacheConfiguration the cache config
 * @return true is copying is required, otherwise false
 */
static boolean requiresCopy(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() || cacheConfiguration.isCopyOnWrite();
}

private static boolean isCopyOnReadAndCopyOnWrite(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
}

/**
 * Wraps the given {@link net.sf.ehcache.store.ElementValueComparator} if the configuration requires copy on read
 *
 * @param comparator the comparator to wrap
 * @param cacheConfiguration the cache configuration
 * @return the comparator passed if no copy needed, a wrapped comparator otherwise
 */
public static ElementValueComparator wrapIfCopy(final ElementValueComparator comparator, final CacheConfiguration cacheConfiguration) {
    if (isCopyOnReadAndCopyOnWrite(cacheConfiguration)) {
        final ReadWriteCopyStrategy<Element> copyStrategyInstance =
            cacheConfiguration.getCopyStrategyConfiguration()
                .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
        CopyStrategyHandler copyStrategyHandler = new CopyStrategyHandler(cacheConfiguration.isCopyOnRead(),
            cacheConfiguration.isCopyOnWrite(),
            copyStrategyInstance, cacheConfiguration.getClassLoader());
        return new CopyingElementValueComparator(comparator, copyStrategyHandler);
    }
    return comparator;
}

/**
private static class CopyingElementValueComparator implements ElementValueComparator {

    private final ElementValueComparator delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public boolean equals(Element e1, Element e2) {
        return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
                              copyStrategyHandler.copyElementForReadIfNeeded(e2));
    }
}

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 */

package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.Searchable;

import java.util.Iterator;

/**
 * A { @link BruteForceSource} that wraps another one and deals with copy for read of { @link Element}s.
 *
 * @author ljacomet
 */


class CopyingBruteForceSource implements BruteForceSource {

    private final BruteForceSource delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    /**
     * Construct this CopyingBruteForceSource with the given delegate and the
     * @link CopyStrategyHandler to use.
     *
     * @param delegate the delegate BruteForceSource
     * @param copyStrategyHandler the copy strategy handler
     */
    CopyingBruteForceSource(BruteForceSource delegate, CopyStrategyHandler copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public Iterable<Element> elements() {
        return new CopyingIterable(delegate.elements(), copyStrategyHandler);
    }

    @Override
    public Searchable getSearchable() {
        return delegate.getSearchable();
    }

    @Override
    public Element transformForIndexing(Element element) {
        return copyStrategyHandler.copyElementForReadIfNeeded(element);
    }

    /**
     * Wrapping Iterable holding the delegate Iterable and the
     * @link CopyStrategyHandler
     */
    private static class CopyingIterable implements Iterable<Element> {
        private final Iterable<Element> elements;
        private final CopyStrategyHandler copyStrategyHandler;

        public CopyingIterable(Iterable<Element> elements, CopyStrategyHandler copyStrategyHandler) {
            this.elements = elements;
            this.copyStrategyHandler = copyStrategyHandler;
        }

        @Override
        public Iterator<Element> iterator() {
            return new CopyingIterator(elements.iterator());
        }
    }
}
/**
 * Wrapping Iterator responsible of doing the copy on read
 */

private class CopyingIterator implements Iterator<Element> {
    private final Iterator<Element> delegate;

    public CopyingIterator(Iterator<Element> delegate) {
        this.delegate = delegate;
    }

    @Override
    public boolean hasNext() {
        return delegate.hasNext();
    }

    @Override
    public Element next() {
        return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
    }

    @Override
    public void remove() {
        delegate.remove();
    }
}

1.704 bean-validation-api 2.0.0.Final
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/HandlerMapping.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/CancellableFormController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/BindTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/TransformTag.java
*/
jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/BaseCommandController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/AbstractWizardFormController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/ViewRendererServlet.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/LastModified.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/AbstractUrlMethodNameResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/HttpServletBean.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/ResourceServlet.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/InputTag.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/HandlerAdapter.java
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* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/mvc/multiaction/ParameterMethodNameResolver.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/servlet/mvc/support/SimpleServletPostProcessor.java
* /opt/cola/permits/1152478050_1618244915.29/0/spring-webmvc-3-0-5-release-sources-1-jar/org/springframework/web/mvc/support/ControllerTypePredicate.java
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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * {@link #locateSource detected} during response rendering. Users can either specify
 * a specific entry in the model via the {@link #setSourceKey sourceKey} property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See {@link #getSourceTypes() here}
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure {@Link #setOutputProperties output properties}
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
1.708 distro 1.5.0-1.ph4

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Version 2.0, January 2004

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1.712 geronimojmssspec 1.1.1

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1.713 python 3.8.5-r0

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

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

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

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 */

lexer grammar XPathLexer;

tokens { TOKEN_REF, RULE_REF }

/*
path : separator? word (separator word)* EOF ;
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* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources.jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.g4
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  jar/org/antlr/v4/runtime/dfa/AcceptStateInfo.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/RuleDependency.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/atn/SimulatorState.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/dfa/EdgeMap.java
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  jar/org/antlr/v4/runtime/FailedPredicateException.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/ParserRuleContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/atn/WildcardTransition.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/ANTLRFileStream.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/atn/BasicState.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/tree/RuleNode.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/misc/IntSet.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/atn/PrecedencePredicateTransition.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/ParserErrorListener.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/ANTLRErrorStrategy.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/ArrayPredictionContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
  jar/org/antlr/v4/runtime/Token.java
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* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/Parser.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/CodePointTransitions.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/terminal/empty/EmptyEdgeMap.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/terminal/BlockStartState.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/terminal/EmptyPredictionContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/ParserATNSimulator.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/lexer/LexerActionType.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/lexer/OrderedList.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-jar/org/antlr/v4/runtime/lexer/RuleTagToken.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its `@link ChannelPipeline`.
 *
 * <h3>Sub-types</h3>
 * <p>
 * `@link ChannelHandler` itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>`@link ChannelInboundHandler` to handle inbound I/O events, and</li>
 * <li>`@link ChannelOutboundHandler` to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>`@link ChannelInboundHandlerAdapter` to handle inbound I/O events,</li>
 * <li>`@link ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and</li>
 * <li>`@link ChannelDuplexHandler` to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
* The context object

* A `@link ChannelHandler` is provided with a `@link ChannelHandlerContext` object. A `@link ChannelHandler` is supposed to interact with the `@link ChannelPipeline` it belongs to via a context object. Using the context object, the `@link ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `@link AttributeKey`)s) which is specific to the handler.

* State management

* A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

  ```java
  public interface Message {
      // your methods here
  }
  
  public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
      
      private boolean loggedIn;
      
      @Override
      public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
          if (message instanceof LoginMessage) {
              authenticate((LoginMessage) message);
              loggedIn = true;
          } else if (message instanceof GetDataMessage) {
              if (loggedIn) {
                  ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
              } else {
                  fail();
              }
          }
      }
  }
  
  Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

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

public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private final @link AttributeKey<{@link Boolean}> auth =
            AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext} ctx, Message message) {
        @link Attribute<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            <b>attr.set(true)</b>;
        } else (message instanceof GetDataMessage) {
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer}{@link Channel}> {
    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
```
* { @code @Override}
* public void initChannel(@link Channel) channel) {
*     channel.pipeline().addLast("handler", "SHARED");
* }
* }
* </pre>
*
* *
* <h4>The { @code @Sharable} annotation</h4>
* 
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* 
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* 
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* 
* This annotation is provided for documentation purpose, just like
* 
* <h3>Additional resources worth reading</h3>
* 
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* */

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/XmlFrameDecoder.java

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/DecoderResultProvider.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/AsciiHeadersEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
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* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java

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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
* */

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/base64/Base64Dialect.java
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/*
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 */
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain</a>
 * Base64 Encoder/Decoder.
 */

Found in path(s):
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * 
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>

* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

* </pre>

* <h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>
* BEFORE DECODE (14 bytes)  AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length  | Actual Content |----->| Length  | Actual Content |
* | 0x000E   | "HELLO, WORLD" |      | 0x000E   | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* ch3>3 bytes length field at the end of 5 bytes header, do not strip header

* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +-----------+-----------+----------------+      +-----------+-----------+----------------+
* | Header 1  |  Length   | Actual Content |----->| Header 1  |  Length   | Actual Content |
* | 0xCAFE    | 0x00000C  | "HELLO, WORLD" |      | 0xCAFE    | 0x00000C  | "HELLO, WORLD" |
* +-----------+-----------+----------------+      +-----------+-----------+----------------+
* </pre>

* ch3>3 bytes length field at the beginning of 5 bytes header, do not strip header

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +-----------+-----------+----------------+      +-----------+-----------+----------------+
* |  Length   | Header 1  | Actual Content |----->|  Length   | Header 1  | Actual Content |
* | 0x00000C  | 0xCAFE    | "HELLO, WORLD" |      | 0x00000C  | 0xCAFE    | "HELLO, WORLD" |
* +-----------+-----------+----------------+      +-----------+-----------+----------------+
* </pre>

* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field
This is a combination of all the examples above. There are the prepended
header before the length field and the extra header after the length field.
The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
<tt>initialBytesToStrip</tt> to strip the length field and the prepended
header from the frame. If you don't want to strip the prepended header, you
could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```java
/*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
*<pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
  +------|--------+------+----------------+----->| HDR2 | Actual Content |
  | HDR1 | Length | HDR2 | Actual Content |
  | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
  +------|--------+------+----------------+
</pre>
*/

*/

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

```java
/*
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +------|--------+------+----------------+----->| HDR2 | Actual Content |
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
* +------|--------+------+----------------+
*/

*/

@see LengthFieldPrepender
*/

Found in path(s):
*/opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io.netty.handler.codec.LengthFieldBasedFrameDecoder.java
1.723 neko-html 1.9.22

1.724 iputils 20210722-r0

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Description:

```
MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.
```

Installing

```
Install and update using `pip`:
```

```
.. code-block:: text

  pip install -U MarkupSafe
```

Examples
.. code-block:: pycon

>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
Markup(u'<script>alert(document.cookie);</script>')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
Markup('<strong>Hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>Hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % '"World"'
Markup('Hello <em>"World"</em>')

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-----

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-----

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* Issue tracker: https://github.com/pallets/markupsafe/issues  
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/markupsafe
  * Windows: https://ci.appveyor.com/project/pallets/markupsafe

* Test coverage: https://codecov.io/gh/pallets/markupsafe

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7,!=3.0.*,!=3.1.*,!=3.2.*,!=3.3.*

Found in path(s):
* /opt/cola/permits/1175307147_1629390111.70/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXl5Eaz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO
* /opt/cola/permits/1175307147_1629390111.70/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXl5Eaz/MarkupSafe-1.1.1/PKG-INFO

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* /opt/cola/permits/1175307147_1629390111.70/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXl5Eaz/MarkupSafe-1.1.1/README.rst

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/**

* markupsafe._speedups
* ~~~~~~~~~~~~~~~~
* C implementation of escaping for better performance. Used instead of
* the native Python implementation when compiled.
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*/

Found in path(s):
* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-
  Sxz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXl5Eaz/MarkupSafe-1.1.1/src/markupsafe/_speedups.c

1.730 ordered-set 4.0.2

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1.731 jackson-jr-objects 2.12.6

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### 1.732 libffi 3.3-r2

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**1.736 py3-pep 0.12.0-r0**

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1.738 hk2-locator 2.2.0

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Last revised by Reagle $Date: 2005/06/03 22:49:13 $

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* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ConfigurableNetwork.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5-
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/Concurrentimap.java
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/MapMakerInternalMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/SparseImmutableTable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/escape/ArrayBasedCharEscaper.java
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*/
/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

Found in path(s):
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/Partially.java
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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
* 
* <p>This method assumes that the collection size doesn't change while the method is running.
* 
* <p>TODO(kevinb): support concurrently modified collections?
* 
* @param c the collection for which to return an array of elements
*/

Found in path(s):
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/collect/ObjectArrays.java

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* */

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* 
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
* */

Found in path(s):
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/Striped.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableNetwork.java

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  jar/com/google/common/base/SmallCharMatcher.java
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  jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/collection/IndexedImmutableSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/collection/JdkBackedImmutableMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/collection/JdkBackedImmutableBiMap.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/cache/LongAdder.java
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jar/com/google/common/util/concurrent/Atomics.java
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jar/com/google/common/primitives/package-info.java
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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collct/SortedIterables.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collct/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collct/AbstractRangeSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collct/SortedIterable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collct/Count.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/base/Functions.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/primitives/Primitives.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/ListenerableFuture.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
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jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/Object.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/Chars.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSet.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/ForwardingMultiset.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/TreeMultiset.java
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jar/com/google/common/util/collect/TreeTraverser.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
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  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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  jar/com/google/common/util/concurrent/ListenerCallQueue.java
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  jar/com/google/common/collect/AbstractIndexedListIterator.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
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jar/com/google/common/collection/ComputationException.java
* /opt/cola/permissions/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collection/DiscreteDomain.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/CharSink.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAddables.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/PairedStats.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/base/Present.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/base/ Enums.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/cache/ForwardingLoadingCache.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/base/Optional.java
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jar/com/google/common/primitives/ImmutableDoubleArray.java
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jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/hash/AbstractHashFunction.java
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**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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*/

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  jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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  jar/com/google/common/coll ect/ImmutableMultimap.java
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  jar/com/google/common/coll ect/RegularImmutableMap.java
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  jar/com/google/common/coll ect/StandardTable.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/Booleans.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/Longs.java
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* /opt/cola/permits/1349172018_1655893652.jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1349172018_1655893652.jar/com/google/common/escape/Escaper.java
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* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/Traverser.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
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1.759 netty-handler 4.1.48.Final

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/flow/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/flow/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/sutil/X509TrustManagerWrapper.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/PemX509Certificate.java
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/PemValue.java

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  jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
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/**
 * Constructs a new {link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see {link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/commons/AnnotationRemapper.java
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  jar/org/objectweb/asm/commons/FieldRemapper.java
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  jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-
  jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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  jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
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  jar/org/objectweb/asm/commons/InstructionAdapter.java
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  jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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  jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135907511_1613628615.48/0/asm-commons-7-3-1-sources-1-
  jar/org/objectweb/asm/commons/ModuleRemapper.java
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/**
 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>. Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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A. HISTORY OF THE SOFTWARE

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

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

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

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/runtime/DotClass.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/Proxy.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
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jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/EnumMemberValue.java
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jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/LongMemberValue.java

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
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1.769 urllib3 1.26.2

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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFxQb6/>
* Code review, PEP8 compliance, benchmark fix

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

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

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

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

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

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

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

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

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

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

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

* Boris Figovsky <boris.figovsky@ravell.com>
* Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogerodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jsanchez>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLCertificate.load_cert_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
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jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
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jar/springfox/documentation/schema/property/XmlPropertyPlugin.java
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jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java
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jar/springfox/documentation/schema/plugins/IgnorePropertiesModelPlugin.java
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  jar/springfox/documentation/schema/TypeNameIndexingAdapter.java

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1.773 slf4j-log4j 1.7.32

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1.775 ojdbc 6

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* /opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/serializers/ObjectCachedFieldFactory.java
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* /opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/serializers/BeanSerializer.java
* /opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/NotNull.java
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* /opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/serializers/TimeSerializers.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/SearchProcessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksxs/v5/Socks5PasswordAuthStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksxs/v5/Socks5AuthMethod.java
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jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
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    jar/io/netty/handler/codec/redis/RedisMessageType.java
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    jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
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    jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
  * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
    jar/io/netty/handler/codec/redis/RedisCodecUtil.java
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  * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
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*/
/**
* Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/Digester.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/ocsp/OcspRequestBuilder.java
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*/
/**
* Enumeration of supported Base64 dialects.
* The internal lookup tables in this class has been derived from
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* Base64 Encoder/Decoder</a>.
*/

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/package-info.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/TrafficShapingHandler.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/package-info.java

* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

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

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

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

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

### Using `AttributeKey`s

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `AttributeKey`s which is provided by `ChannelHandlerContext`:

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

```java
@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    ...
}
```
private final {@link AttributeKey}<{@link Boolean}> auth =
    {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    {@code @Override}
    public void channelRead(@link ChannelHandlerContext} ctx, Message message) {
        AttributeKey<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}

Now that the state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
same handler instance to different pipelines:

    {@code @Override}
    public void initChannel(<b>Channel</b> channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
}

The {code @Sharable} annotation

In the example above which used an {link AttributeKey},
you might have noticed the {code @Sharable} annotation.

If a {link ChannelHandler} is annotated with the {code @Sharable}
annotation, it means you can create an instance of the handler just once and
add it to one or more {link ChannelPipeline}s multiple times without
a race condition.

If this annotation is not specified, you have to create a new handler
every time you add it to a pipeline because it has unshared state
such as member variables.
This annotation is provided for documentation purpose, just like the JCIP annotations.

Please refer to the `ChannelHandler` and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/nettyexample/worldclock/WorldClockProtocol.proto
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
 * /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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  jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/cookie/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/HeadersUtils.java
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 */

/*
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the 
* length field. Therefore, it can be decoded with the simplistic parameter 
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
* 
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* \(<b>\text{lengthAdjustment}\end{b}> = \langle b \rangle - 2 \langle h \rangle \) (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* \</pre>*
*
* \(<h>3</h>\) bytes length field at the end of 5 bytes header, do not strip header</h3>*
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \(<tt>\text{lengthAdjustment}</tt>\) is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* \(<pre>
* \(<b>\text{lengthFieldOffset}\end{b}> = \langle b \rangle 2 \langle h \rangle \) (= the length of Header 1)
* \(<b>\text{lengthFieldLength}\end{b}> = \langle b \rangle 3 \langle h \rangle \)
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* \</pre>*
*
* \(<h>3</h>\) bytes length field at the beginning of 5 bytes header, do not strip header</h3>*
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive \(<tt>\text{lengthAdjustment}</tt>\) so that the decoder counts the extra
* header into the frame length calculation.
* \(<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* \(<b>\text{lengthAdjustment}\end{b}> = \langle b \rangle 2 \langle h \rangle \) (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* \</pre>
2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field.

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify initialBytesToSkip for initialBytesToStrip.

<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.

We have to count the length of HDR1 and Length into lengthAdjustment. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>-3</td>
<td>3</td>
</tr>
</tbody>
</table>

BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+

@see LengthFieldPrepender
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
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* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
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*/
/**
* Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
* Set the { @code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
* for more details.
*/

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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/Cache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/integration/impl/StaticMethodImportResolver.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/ASTIterator.java
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1.799 springfox-swagger-common 3.0.0

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*/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationSummaryReader.java
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*/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationHiddenReader.java

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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/Examples.java

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* /opt/cola/permits/1313350840_1650567014.5/0/netty-codec-stomp-4-1-75-final-sources-2-jar/META-INF/maven/io.netty/netty-codec-stomp/pom.xml
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* /opt/cola/permits/1313350840_1650567014.5/0/netty-codec-stomp-4-1-75-final-sources-2-
1.801 spring-binding 2.0.8.RELEASE

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* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-jar/org/springframework/bindings/convert/converters/ObjectToCollection.java
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   */opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-jar/org/springframework/binding/convert/converters/FormattedStringToNumber.java
   */opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-jar/org/springframework/binding/convert/converters/StringToBoolean.java
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   */opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-jar/org/springframework/binding/expression/ognl/OgnlExpression.java
   */opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-jar/org/springframework/binding/expression/support/AbstractGetValueExpression.java

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* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2.0.8-release-sources-2.jar/org/springframework/binding/expression/support/CollectionAddingExpression.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2.0.8-release-sources-2.jar/org/springframework/binding/expression/PropertyNotFoundException.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2.0.8-release-sources-2.jar/org/springframework/binding/collection/StringKeyedMapAdapter.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2.0.8-release-sources-2.jar/org/springframework/binding/mapping/results/TypeConversionError.java
* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2.0.8-release-sources-2.jar/org/springframework/binding/format/PercentNumberFormatFactory.java
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* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2.0.8-release-sources-2.jar/org/springframework/binding/convert/service/RuntimeBindingConversionExecutor.java
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1.806 python-certifi 2020.11.08

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1.807 snappy-java 1.1.7.6

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  jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
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  jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
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  jar/org/springframework/jndi/JndiLookupFailureException.java
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  jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
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 *
 * Exposes the MBeanServer for bean references.
 * This FactoryBean is a direct alternative to MBeanServerFactoryBean, which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
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1.822 googleapis-common-protos 0.0.3

1.823 bcel 2.7.2
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 */
/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */
package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "
        +getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}
/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *    a specific release. D01 is the first development drop
 *    of a new release.
 *
 * Development drops are works in progress towards a
 *    completed, final release. A specific development drop
 *    may not completely implement all aspects of a new
 *    feature, which may take several development drops to
 *    complete. At the point of the final drop for the
 *    release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 *    well as defect fixes. 'D' drops may not be as stable as
 *    the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (new String("@version.DEVELOPER@").length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
            return 0;
    }
}

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

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Administrative class to keep track of the version number of
the Serializer release.
This class implements the upcoming standard of having
org.apache.project-name.Version.getVersion() be a standard way
to get version information.

public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
    +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
    +( (getDevelopmentVersionNum() > 0) ?
        ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()) );
}

/**
 * Print the processor version to the command line.
 *
public static void main(String argv[]) {
    System.out.println(getVersion());
}

public static String getProduct() {
    return "Serializer";
}

public static String getImplementationLanguage() {
    return "Java";
}

public static int getMajorVersionNum() {
    return @version.VERSION@;
}

/*
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

/*
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 * implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
Found in path(s):
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/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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  jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_text.properties
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  jar/org/apache/xml/serializer/output_xml.properties
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  jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/output_html.properties

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 */

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/ *
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */
package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
private static StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;
    if (test == null) { // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
}

return new StepPattern(axis, nodeType, predicates);
}
else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
        nodeType = (name.toString().equals("*")) ? -1 : _xslt.registerNamespacePrefix(name);
    } else {
        final String uri = name.getNamespace();
        final String local = name.getLocalPart();
        final QName namespace_uri = _parser.getQNameIgnoreDefaultNs("namespace-uri");

        // Expand {uri}::* to *[namespace-uri() = 'uri'] - same for @*
        if (uri != null && (local.equals("*") || local.equals("@*"))) {
            if (predicates == null) {
                predicates = new Vector(2);
            }
            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);

            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                        new NamespaceUriCall(namespace_uri),
                        new LiteralExpr(uri))));
        }

        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            nodeType = NodeTest.ATTRIBUTE;
        } else {
            nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) : _xslt.registerElement(name);
        }
    }
final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) { // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*") ? -1 :
                _xsltc.registerNamespacePrefix(name));
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    NodeTest.ELEMENT;
            } else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
            _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
* expression contains references to local variables and it will be
* compiled in an external module (not in the main class) request
* the current template to create a new variable stack frame.
*
* @param lineNumber Line where the current expression is defined.
* @param external Set to <tt>true</tt> if this expression is
* compiled in a separate module.
*
*/

public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                     lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
* Lookup a variable or parameter in the symbol table given its name.
*
* @param name Name of the symbol being looked up.
*
*/
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                                       _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
            |
            EXPRESSION Expr:expr
            |
            { : RESULT = pattern : }
            |
            { : RESULT = expr : };

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
            |
            { : RESULT = lpp : }
| LocationPathPattern: lpp VBAR Pattern: p |
| : RESULT = new AlternativePattern(lpp, p); |

LocationPathPattern ::= SLASH |
| : RESULT = new AbsolutePathPattern(null); |

| RelativePathPattern: rpp |
| : RESULT = new AbsolutePathPattern(rpp); |

| IdKeyPattern: ikp |
| : RESULT = ikp; |

| IdKeyPattern: ikp SLASH RelativePathPattern: rpp |
| : RESULT = new ParentPattern(ikp, rpp); |

| IdKeyPattern: ikp DSLASH RelativePathPattern: rpp |
| : RESULT = new AncestorPattern(ikp, rpp); |

| DSLASH RelativePathPattern: rpp |
| : RESULT = new AncestorPattern(rpp); |

| RelativePathPattern: rpp |
| : RESULT = rpp; |

IdKeyPattern ::= ID LPAREN Literal: l RPAREN |
| : RESULT = new IdPattern(l); |
| parser.setHasIdCall(true); |

| KEY LPAREN Literal: l1 COMMA Literal: l2 RPAREN |
| : RESULT = new KeyPattern(l1, l2); |

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal: l RPAREN |
| : RESULT = new ProcessingInstructionPattern(l); |

RelativePathPattern ::= StepPattern: sp |
| : RESULT = sp; |

| StepPattern: sp SLASH RelativePathPattern: rpp |
| : RESULT = new ParentPattern(sp, rpp); |

| StepPattern: sp DSLASH RelativePathPattern: rpp |
| : RESULT = new AncestorPattern(sp, rpp); |

StepPattern ::= NodeTestPattern: nt |
| : |
| RESULT = parser.createStepPattern(Axis.CHILD, nt, null); |
NodeTestPattern::nt Predicates::pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}

ProcessingInstructionPattern::pip
{: RESULT = pip; :}

ProcessingInstructionPattern::pip Predicates::pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

ChildOrAttributeAxisSpecifier::axis NodeTestPattern::nt
{: RESULT = parser.createStepPattern(axis.intValue(), nt, null); :}

ChildOrAttributeAxisSpecifier::axis
NodeTestPattern::nt Predicates::pp
{: RESULT = parser.createStepPattern(axis.intValue(), nt, pp); :}

ChildOrAttributeAxisSpecifier::axis ProcessingInstructionPattern::pip
{: RESULT = pip; // TODO: report error if axis is attribute
 :}

ChildOrAttributeAxisSpecifier::axis ProcessingInstructionPattern::pip
Predicates::pp
{: // TODO: report error if axis is attribute
 RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
 :};

NodeTestPattern ::= NameTestPattern::nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}
| QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}
| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}
| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{: Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}
| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :

/*/ --------------- Expressions ------------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}
| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}
| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};
EqualityExpr ::= RelationalExpr:re
   { : RESULT = re; : }

   | EqualityExpr:ee EQ RelationalExpr:re
     { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }

   | EqualityExpr:ee NE RelationalExpr:re
     { : RESULT = new EqualityExpr(Operators.NE, ee, re); : }

RelationalExpr ::= AdditiveExpr:ae
   { : RESULT = ae; : }

   | RelationalExpr:re LT AdditiveExpr:ae
     { : RESULT = new RelationalExpr(Operators.LT, re, ae); : }

   | RelationalExpr:re GT AdditiveExpr:ae
     { : RESULT = new RelationalExpr(Operators.GT, re, ae); : }

   | RelationalExpr:re LE AdditiveExpr:ae
     { : RESULT = new RelationalExpr(Operators.LE, re, ae); : }

   | RelationalExpr:re GE AdditiveExpr:ae
     { : RESULT = new RelationalExpr(Operators.GE, re, ae); : }

AdditiveExpr ::= MultiplicativeExpr:me
   { : RESULT = me; : }

   | AdditiveExpr:ae PLUS MultiplicativeExpr:me
     { : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : }

   | AdditiveExpr:ae MINUS MultiplicativeExpr:me
     { : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : }

MultiplicativeExpr ::= UnaryExpr:ue
   { : RESULT = ue; : }

   | MultiplicativeExpr:me MULT UnaryExpr:ue
     { : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : }

   | MultiplicativeExpr:me DIV UnaryExpr:ue
     { : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : }

   | MultiplicativeExpr:me MOD UnaryExpr:ue
     { : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : }

UnaryExpr ::= UnionExpr:ue
   { : RESULT = ue; : }

---

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UnionExpr ::= PathExpr
{: RESULT = pe; :}

PathExpr ::= RelativeLocationPath
{: RESULT = lp; :}

// Expand '//' into '/descendant-or-self::node()' or
// into /descendant-or-self::*
//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
   parser.isElementAxis(((Step) rlp).getAxis()))
{
   nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
   fpp.setDescendantAxis();
}
RESULT = fpp;
:;

LocationPath ::= RelativeLocationPath
{: RESULT = rlp; :}

AbsoluteLocationPath
{: RESULT = alp; :};
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step; // Remove './' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp; // Remove '/.' from the end
}
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}

AbsoluteLocationPath ::= SLASH
'{: RESULT = new AbsoluteLocationPath(); :}'

| SLASH RelativeLocationPath:rlp
'{: RESULT = new AbsoluteLocationPath(rlp); :}'

| AbbreviatedAbsoluteLocationPath:aalp
'{: RESULT = aalp; :}';

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
'{: final Step right = (Step)step;
    final int axis = right.getAxis();
    final int type = right.getNodeType();
    final Vector predicates = right.getPredicates();

    if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
        // Compress './child:E' into 'descendant::E' - if possible
        if (predicates == null) {
            right.setAxis(Axis.DESCENDANT);
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
                RESULT = right;
            } else {
                // Expand 'rlp/child::E' into 'rlp/descendant::E'
                RelativeLocationPath left = (RelativeLocationPath)rlp;
                RESULT = new ParentLocationPath(left, right);
            }
        } else {
           ...
        }
    } else {
    }'
// Expand 'step' -> 'descendant-or-self::*/step'
if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
    Step left = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
    RESULT = new ParentLocationPath(left, right);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step mid = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(mid, right);
    RESULT = new ParentLocationPath(left, ppl);
} }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
    DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} 

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
        // Expand '// into '/descendant-or-self::node()/ or
        // into /descendant-or-self::*/
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
;

Step ::= NodeTest:ntest
{
  if (ntest instanceof Step) {
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
  }
}

| NodeTest:ntest Predicates:pp
{
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), pp);
  }
}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: RESULT = new Step(axis.intValue(), parser.findNodeType(axis.intValue(), ntest), pp);
}

| AxisSpecifier:axis NodeTest:ntest
{: RESULT = new Step(axis.intValue(), parser.findNodeType(axis.intValue(), ntest), null);
}

| AbbreviatedStep:abbrev
{: RESULT = abbrev: :}

AxisSpecifier ::= AxisName:an DCOLO
{: RESULT = an; :}

| ATSIGN
{ : RESULT = new Integer(Axis.ATTRIBUTE); : };

AxisName ::= ANCESTOR
{ : RESULT = new Integer(Axis.ANCESTOR); : }

| ANCESTORORSELF
{ : RESULT = new Integer(Axis.ANCESTORORSELF); : }

| ATTRIBUTE
{ : RESULT = new Integer(Axis.ATTRIBUTE); : }

| CHILD
{ : RESULT = new Integer(Axis.CHILD); : }

| DESCENDANT
{ : RESULT = new Integer(Axis.DESCENDANT); : }

| DESCENDANTORSELF
{ : RESULT = new Integer(Axis.DESCENDANTORSELF); : }

| FOLLOWING
{ : RESULT = new Integer(Axis.FOLLOWING); : }

| FOLLOWINGSIBLING
{ : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : }

| NAMESPACE
{ : RESULT = new Integer(Axis.NAMESPACE); : }

| PARENT
{ : RESULT = new Integer(Axis.PARENT); : }

| PRECEDING
{ : RESULT = new Integer(Axis.PRECEDING); : }

| PRECEDINGSIBLING
{ : RESULT = new Integer(Axis.PRECEDINGSIBLING); : }

| SELF
{ : RESULT = new Integer(Axis.SELF); : };

AbbreviatedStep ::= DOT
{ : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }

| DDOT
{ : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : };

FilterExpr ::= PrimaryExpr:primary
PrimaryExpr ::= VariableReference:vr  
    {: RESULT = vr; :}

| LPAREN Expr:ex RPAREN  
    {: RESULT = ex; :}

| Literal:string  
    {:  
      /*  
      * If the string appears to have the syntax of a QName, store  
      * namespace info in the literal expression. This is used for  
      * element-available and function-available functions, among  
      * others. Also, the default namespace must be ignored.  
      */  
      String namespace = null;  
      final int index = string.lastIndexOf(':');  

      if (index > 0) {  
        final String prefix = string.substring(0, index);  
        namespace = parser._symbolTable.lookupNamespace(prefix);  
      }  
      RESULT = (namespace == null) ? new LiteralExpr(string)  
          : new LiteralExpr(string, namespace);  
    :}

| INT:num  
    {:  
      long value = num.longValue();  
      if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {  
        RESULT = new RealExpr(value);  
      }  
      else {  
        if (num.doubleValue() == -0)  
          RESULT = new RealExpr(num.doubleValue());  
        else if (num.intValue() == 0)  
          RESULT = new IntExpr(num.intValue());  
        else if (num.doubleValue() == 0.0)  
          RESULT = new RealExpr(num.doubleValue());  
        else  
          RESULT = new IntExpr(num.intValue());  
      }  
    :}
```java
| REAL::num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall::fc
{: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
{:  
  // An empty qname prefix for a variable or parameter reference  
  // should map to the null namespace and not the default URI.  
  SyntaxTreeNode node = parser.lookupName(varName);

  if (node != null) {
    if (node instanceof Variable) {
      RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
      RESULT = new ParameterRef((Param)node);
    }
    else {
      RESULT = new UnresolvedRef(varName);
    }
  }

  if (node == null) {
    RESULT = new UnresolvedRef(varName);
  }
};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{:  
  if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
  }
  else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
  }
  else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
  }
};
```
RESULT = new BooleanExpr(false);

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}

else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}

else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
|                                                          |
| if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) |
|     RESULT = new ConcatCall(fname, argl);                  |

else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Translet.URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
);

NonemptyArgumentList ::= Argument:arg
    |
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
    |
    Argument:arg COMMA NonemptyArgumentList:argl
    |
    : argl.insertElementAt(arg, 0); RESULT = argl; :);

FunctionName ::= QName:fname
    |
    : RESULT = fname;
    :;

VariableName ::= QName:vname
    |
    : RESULT = vname;
    :;

Argument ::= Expr:ex
    |
    : RESULT = ex; :;

NodeTest ::= NameTest:nt
    |
    : RESULT = nt; :}
    |
    NODE
    : RESULT = new Integer(NodeTest.ANODE); :}
    |
    TEXT
{| : RESULT = new Integer(NodeTest.TEXT); : |

| COMMENT |
| : RESULT = new Integer(NodeTest.COMMENT); : |

| PIPARAM LPAREN Literal:l RPAREN |
| : QName name = parser.getQNameIgnoreDefaultNs("name"); |
| Expression exp = new EqualityExpr(Operators.EQ, |
| new NameCall(name), |
| new LiteralExpr(l)); |
| Vector predicates = new Vector(); |
| predicates.addElement(new Predicate(exp)); |
| RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates); |
| : |

| PI |
| : RESULT = new Integer(NodeTest.PI); : |

NameTest ::= STAR |
| : RESULT = null; : |

| QName:qn |
| : RESULT = qn; : |

QName ::= QNAME:qname |
| : RESULT = parser.getQNameIgnoreDefaultNs(qname); : |

| DIV |
| : RESULT = parser.getQNameIgnoreDefaultNs("div"); : |

| MOD |
| : RESULT = parser.getQNameIgnoreDefaultNs("mod"); : |

| KEY |
| : RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF |
| : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE |
| : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD |
| : RESULT = parser.getQNameIgnoreDefaultNs("child"); : |
DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant"); :}

DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); :}

FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup
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*/

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/
*/
*Sld: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/
/
*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
%
%
cup
%
unicode
%
class XPathLexer
%
yyeof
%
{
   int last;
void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
}

/**
* If symbol is not followed by `::` or `(`, then treat it as a
* name instead of an axis or function (Jira-1912).
*/
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;
    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }
    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }
    // Return symbol if next token is `::` or `(`
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
* If symbol is first token or if it follows any of the operators
* listed in http://www.w3.org/TR/xpath#exprlex then treat as a
* name instead of a keyword (Jira-1912).
*/
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
case sym.DCOLOM:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%}

%eofval{
    return newSymbol(sym.EOF);
}

%yylexthrow{
    Exception
}

%yylexthrow

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD\u01F4-\u01FA\u0217\u0250-\u02A8\u02BB-\u02C1\u0386-\u0388\u038C\u038E-\u03A1-\u03D0-\u0401-\u042B\u044E-\u045D\u0465-\u0490-\u04C7\u04CC\u04D0-\u04EE-\u04F5\u04F8-\u0531-\u0556\u057A-\u0586\u05C7\u05D6\u05E5-\u05F2\u0621-\u06B7\u06CA-\u06CE-\u06D5\u06E5-\u0898-\u0981-\u0993-\u0999-\u09A8-\u09B0-\u09B2-\u09F0-\u09F4-\u0A13-\u0A28-\u0A35-\u0A36-\u0A59-\u0A5C-\u0A72-\u0A74-\u0A85-\u0A8B-\u0A8F-\u0A91-\u0AA-\u0AB-\u0AB3-\u0AB5-\u0AB9-\u0ABD-\u0AE-\u0B0-\u0B0C-\u0B0F-\u0B10-\u0B13-\u0B28-\u0B2A-\u0B30-\u0B32-\u0B36-\u0B39-\u0B3D-\u0B5C-\u0B5D-\u0B5F-\u0B61-\u0B85-
"*"                      { return disambiguateStar(); } 
"/"                      { return newSymbol(sym.SLASH); } 
"+"                      { return newSymbol(sym.PLUS); } 
"-"                      { return newSymbol(sym.MINUS); } 
"div"                    { return disambiguateOperator(sym.DIV); } 
"mod"                    { return disambiguateOperator(sym.MOD); } 
":"                     { return newSymbol(sym.DCOLON); } 
"."                     { return newSymbol(sym.COMMA); } 
"@"                     { return newSymbol(sym.ATSIGN); } 
".."                     { return newSymbol(sym.DDOT); } 
"|"                     { return newSymbol(sym.VBAR); } 
"$"                     { return newSymbol(sym.DOLLAR); } 
"//"                     { return newSymbol(sym.DSLASH); } 
"="                     { return newSymbol(sym.EQ); } 
"!="                    { return newSymbol(sym.NE); } 
"<"                     { return newSymbol(sym.LT); } 
">"                     { return newSymbol(sym.GT); } 
"<="                   { return newSymbol(sym.LE); } 
">="                   { return newSymbol(sym.GE); } 
"id"                   { return disambiguateAxisOrFunction(sym.ID); } 
"key"                { return disambiguateAxisOrFunction(sym.KEY); } 
"text()"                { return newSymbol(sym.TEXT); } 
"text"+[ \t\n\r\f]+("    { return newSymbol(sym.TEXT); } 
"node()"                { return newSymbol(sym.NODE); } 
"node"+[ \t\n\r\f]+("    { return newSymbol(sym.NODE); } 
"comment()"               { return newSymbol(sym.COMMENT); } 
"comment"+[ \t\n\r\f]+("    { return newSymbol(sym.COMMENT); } 
"processing-instruction()  { return disambiguateAxisOrFunction(sym.PIPARAM); } 
"processing-instruction()   { return newSymbol(sym.PI); } 
"processing-instruction"+[ \t\n\r\f]+("    { return newSymbol(sym.PI); } 
"or"                    { return disambiguateOperator(sym.OR); } 
"and"                   { return disambiguateOperator(sym.AND); } 
"child"                  { return disambiguateAxisOrFunction(sym.CHILD); } 
"attribute"               { return disambiguateAxisOrFunction(sym.ATTRIBUTE); } 
"ancestor"                 { return disambiguateAxisOrFunction(sym.ANCESTOR); } 
"ancestor-or-self"              { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); } 
"descendant"                { return disambiguateAxisOrFunction(sym.DESCENDANT); } 
"descendant-or-self"             { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); } 
"following"                 { return disambiguateAxisOrFunction(sym.FOLLOWING); } 
"following-sibling"                { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); } 
"namespace"                  { return disambiguateAxisOrFunction(sym.NAMESPACE); } 
"parent"                   { return disambiguateAxisOrFunction(sym.PARENT); } 
"preceding"                  { return disambiguateAxisOrFunction(sym.PRECEDING); } 
"preceding-sibling"                { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"  { return disambiguateAxisOrFunction(sym.SELF); }
"["  { return newSymbol(sym.LBRACK); }
"]"  { return newSymbol(sym.RBRACK); }
"("  { return newSymbol(sym.LPAREN); }
")"  { return newSymbol(sym.RPAREN); }
"<PATTERN>"  { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"  { initialize(); return new Symbol(sym.EXPRESSION); }
\[\^\]"  { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\[\^\]\"  { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
{Digit}+  { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+\.(\d{Digit}*)?  { return newSymbol(sym.REAL, new Double(yytext())); }
\."  { return newSymbol(sym.REAL, new Double(yytext())); }
\."  { return newSymbol(sym.DOT); }
{NCName}:)?{NCName}  { return newSymbol(sym.QNAME, yytext()); }
{NCName}:)?@*”  { return newSymbol(sym.QNAME, yytext()); }
[\s\w\\n]  { /* ignore white space. */ }
.  { throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/xpath.lex
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 */
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;
**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
  System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 */
* API or behaviour change.
* its designated as a reference release.
*/
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 * Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));

}
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/QueuedEvents.java

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jar/org/apache/xalan/transformer/QueuedEvents.java
Open Source Used In Crosswork Common EMS Services 4.0.0  7603
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/ObjectVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/runtime/ErrorMessage_tr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/res/XPATHErrorResources_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/RawCharacterHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/ProcessingInstruction.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/utils/SystemIDResolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/WriterToASCII.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/runtime/ErrorMessage_ru.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/dtm/DTMDefaultBaseIterators.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncStringLength.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/NamespaceAlias.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/dtm/ref/DTMDefaultBaseIterators.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncGenerateId.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/OutputPropertiesFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/ProcessorStylesheetDoc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/XSLTElementProcessor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/BooleanType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/OutlineableChunkStart.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/LogicalExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/util/OutlineableChunkStart.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/LogicalExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/LogicalExpr.java
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1.824 netty-transport-native-epoll 4.1.75.Final

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1.825 ehcache-terracotta 2.6.5
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* /opt/cola/permits/1258365803_1643062100.62/jar/net/sf/ehcache/search/aggregate/Not.java
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* /opt/cola/permits/1258365803_1643062100.62/jar/net/sf/ehcache/store/DiskStoreBootstrapCacheLoader.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1.jar/net/sf/ehcache/CacheException.java
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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/elements/NonstopConfigurationElement.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/SampledEhcacheMBeans.java
* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/ods/AATreeSet.java

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*/
/**
* Returns a list of all element keys in the cache, whether or not they are expired.
* <p/>
* The returned keys are unique and can almost be considered a set. See
* net.sf.ehcache.store.CacheKeySet.
* <p/>
* The List returned is not live. It is a copy.
* <p/>
* The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
* for each 1000 entries.
* <p/>
* @return a list of Object keys
* @throws IllegalStateException if the cache is not STATUS_ALIVE
* @see net.sf.ehcache.store.CacheKeySet
*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java

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jar/org/apache/xerces/xs/datatypes/package.html

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/w3c/dom/html/HTMLDOMImplementation.java

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*/
/**
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If so, this content model should not be used
* for any purpose other than checking unique particle attribution
* @return a boolean that says whether this content has been compacted for UPA
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
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 */

/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in asynchronous
 *   mode.
 * @param schemaType  An absolute URI representing the type of the schema
 *   language used during the load of a <code>Document</code> using the
 *   newly created <code>LSParser</code>. Note that no lexical checking
 *   is done on the absolute URI. In order to create a
 *   <code>LSParser</code> for any kind of schema types (i.e. the
 *   LSParser will be free to use any schema found), use the value
 *   <code>null</code>.
 * @return  The newly created <code>LSParser</code> object. This
 */

 * , applications must use the value
 * <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [a href='http://www.w3.org/TR/2000/REC-xml-20001006']XML 1.0</a>],
 * applications must use the value
 * <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
 * are outside the scope of the W3C and therefore should recommend an
 * absolute URI in order to use this method.
 * @return The newly created <code>LSParser</code> object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
  depending on the value of the `<code>mode</code>` argument.
* `<p>` `<b>Note:</b>` By default, the newly created `<code>LSParser</code>`
  does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
  the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
  may provide a default error handler at creation time. In that case,
  the initial value of the `<code>error-handler</code>` configuration
  parameter on the new created `<code>LSParser</code>` contains a
  reference to the default error handler.
* `@exception DOMException` 
* `NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is` 
  not supported.
*/

Found in path(s):
* `/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`
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* `/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java`
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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/DDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/validation/StAXValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLBElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLAnchorElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/DOMSerializerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLIFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/LineSeparator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/util/XMLLocatorWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/StreamValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/util/StAXLocationWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dt/XMLNotationDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/BaseSchemaDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDouble.java
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jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IDREFDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLButtonElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDocument.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMapElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLElementScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XML11NSDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/ElementPSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLResourceIdentifier.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/xs/xs/appender/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/NSW2LOperator.java
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* /opt/cola/permits/125887684_1643118225.45/0/jetty-util-9-4-11-v20180605-sources.jar/org/eclipse/jetty/util/IteratingNestedCallback.java

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* /opt/cola/permits/1258887684_1643118225.45/0/jetty-util-9-4-11-v20180605-sources-jar/org/eclipse/jetty/util/Utf8Appendable.java

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build() {
  cd "$_buildddir"
  ./configure --prefix=/usr || return 1
  make || return 1
}

package() {
  cd "$_buildddir"
  make DESTDIR="$pkgdir" install || return 1
}
md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"
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1.849 spring-jdbc 5.3.18

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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/support/SqlLobValue.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseFactoryBean.java
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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *<p>This package and related packages are discussed in Chapter 9 of
 *<a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
 *Development</a>
 *by Rod Johnson (Wrox, 2002).
 */

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jar/org/springframework/jdbc/object/StoredProcedure.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
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jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java

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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/support/JdbcAccessor.java
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/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */

/**
 * Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never { @code null})
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
*/

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/ExpandedParameterNotNullAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/ExpandedParameterNotBlankAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/configuration/BeanValidatorPluginsConfiguration.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/NotNullAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/PatternAnnotationPlugin.java
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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/NotBlankAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/IsNullAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/SizeAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/SizeAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/MinMaxAnnotationPlugin.java
* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/schema/NotNullAnnotationPlugin.java
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* /opt/cola/permits/1121920052_1610435891.65/0/springfox-bean-validators-3-0-0-sources-jar/springfox/bean/validators/plugins/parameter/ExpandedParameterPatternAnnotationPlugin.java
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/ * /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/logging/AbstractLoggerManager.java
/ * /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Contextualizable.java
/ * /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/component/repository/exception/ComponentLifecycleException.java
/ * /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/component/repository/exception/ComponentConfigurationException.java
/ * /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/component/reloading/ComponentReloadingException.java
1.865 netty-transport-classes-epoll
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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/SegmentedDatagramPacket.java

* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollITcpInfo.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/AbstractEpollChannel.java
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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1- jar/io/netty/channel/epoll/LinuxSocket.java

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/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
* Set the `@code TCP_QUICKACK` option on the socket.
* See `<a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>` for more details.
*/

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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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 * Set the (@code TCP_MD5SIG) option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthRoleListResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/KVImpl.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthRoleGetResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/kv/PutResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/maintenance/MoveLeaderResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/maintenance/StatusResponse.java
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* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/kv/PutResponse.java
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* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/maintenance/StatusResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/maintenance/AlarmResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/kv/PutResponse.java
jar/com/coreos/jetcd/kv/TxnResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-
  jar/com/coreos/jetcd/kv/CompactResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/Client.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-
  jar/com/coreos/jetcd/cluster/MemberListResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-
  jar/com/coreos/jetcd/data/KeyValue.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-
  jar/com/coreos/jetcd/options/DeleteOption.java
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 */
/**
 * defragment one member of the cluster.
 *
 * <p>After compacting the keyspace, the backend database may exhibit internal
 * fragmentation. Any internal fragmentation is space that is free to use
 * by the backend but still consumes storage space. The process of
 * defragmentation releases this storage space back to the file system.
 * Defragmentation is issued on a per-member so that cluster-wide latency
 * spikes may be avoided.
 *
 * <p>Defragment is an expensive operation. User should avoid defragmenting
 * multiple members at the same time.
To defragment multiple members in the cluster, user need to call defragment multiple times with different endpoints.

/**

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* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/MaintenanceImpl.java
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* defragment one member of the cluster by its endpoint.
 *
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 * 
 * <p>Defragment is an expensive operation. User should avoid defragmenting
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 * To defragment multiple members in the cluster, user need to call defragment
 * multiple times with different endpoints.
 */

Found in path(s):
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-
jar/com/coreos/jetcd/Maintenance.java

1.870 jetcd-common 0.0.2

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* /opt/cola/permits/1130189413_1612483950.32/0/jetcd-common-0-0-2-sources-1-jar/com/coreos/jetcd/common/exception/EtcdException.java
* /opt/cola/permits/1130189413_1612483950.32/0/jetcd-common-0-0-2-sources-1-
1.871 everit-json-schema 1.14.0

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* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-
jar/org/apache/taglibs/standard/tag/common/fmt/FormatNumberSupport.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-
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* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/lang/jstl/Coercions.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/lang/jstl/BeanInfoProperty.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/javax/servlet/jsp/jstl/ELException.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/common/sql/DataSourceWrapper.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/lang/jstl/RelationalOperator.java
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/runner/NotifiedTestExecuter.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestSuiteFactory.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCaseOutputResult.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/RunnerController.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/runner/TestSuiteAdapter.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/ITestCaseOutput.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCase.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCaseInputMultiString.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/Tool.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCaseInputFile.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCase.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/runner/ParserLoader.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestSuite.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/WorkSpaceController.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCaseInputMultiString.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/Tool.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/swingui/model/TestCaseInputString.java
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*/
/** Template subgroup to add template rewrite output
If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>>
import org.antlr.stringtemplate.*;
import org.antlr.stringtemplate.language.*;
import java.util.HashMap;

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
    public StringTemplate st;
    public Object getTemplate() { return st; }
    public String toString() { return st==null?null:st.toString(); }
>>

@genericParser.members() ::= <<
    <@super.members()>
    protected StringTemplateGroup templateLib =
        new StringTemplateGroup("<name>Templates", AngleBracketTemplateLexer.class);

    public void setTemplateLib(StringTemplateGroup templateLib) {
        this.templateLib = templateLib;
    }
    public StringTemplateGroup getTemplateLib() {
        return templateLib;
    }
/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put(...)"
*/
    @SuppressWarnings("serial")
    public static class STAttrMap extends HashMap<String, Object> {
        public STAttrMap put(String attrName, Object value) {
            super.put(attrName, value);
            return this;
        }
    }
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRef(rule,label,elementIndex,args,scope)>
    <listLabel(label, {<label>.getTemplate()})>
>>

rewriteTemplate(alts) ::= <<
    // TEMPLATE REWRITE
    <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {
        <alts:rewriteTemplateAlt(); separator="else ">
        <if(rewriteMode)><replaceTextInLine()><endif>
    }
    //</if>
replaceTextInLine() ::= <<
@if(TREE_PARSER>
((TokenRewriteStream)input.getTokenStream()).replace(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start),
retval.st);
@else>
((TokenRewriteStream)input).replace(
((Token)retval.start).getTokenIndex(),
input.LT(-1).getTokenIndex(),
retval.st);
@end>
>>

rewriteTemplateAlt(alt) ::= <<
//@alt.description>
@if(alt.pred>
if (<alt.pred>) {
retval.st = <alt.alt>;
}@
@else>
{
retval.st = <alt.alt>;
}@
@end>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <%
templateLib.getInstanceOf("<name>"<if(args)>,
new STAttrMap(){a | .put("<a.name">", <a.value>)})>
@end>
/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
templateLib.getInstanceOf(<expr><if(args)>,
    new STAttrMap(){args:{a | .put("<a.name>",<a.value>)}}
    <endif>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(templateLib,"<template><if(args)>,
    new STAttrMap(){args:{a | .put("<a.name>",<a.value>)}}
    <endif>)
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
    <action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
    (<st>).setAttribute("<attrName>",<expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
    new StringTemplate(templateLib,<stringExpr>)
>>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/ST.stg
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*/

/** Templates for building ASTs during normal parsing.
 *
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <%
  <super.tokenRef(...)>
  <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)><\n    if (state.backtracking == 0) {<endif>
      <\n      <label>_tree = <createNodeFromToken(...)>;
      <\n      adaptor.AddChild(root_0, <label>_tree);
      <if(backtracking)><\n    }<endif>
  <endif>
  <endif>

```
/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)">

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>{
<if ((actions.(actionScope).synpredgate) {<endif>
<un><label>_tree = <createNodeFromToken(...)>
<un>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}<endif>
<endif>
%

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
matchRuleBlockSet(s, label, elementIndex, postmatchCode, treeLevel="0", terminalOptions={}) ::= <<<
matchSet(...)
>>>

matchSetBang(s, label, elementIndex, postmatchCode, terminalOptions={}) ::= "<super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|[...|C)

matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={}) ::= <<<
  if(label)
  {
    <label>=(<labelType>)input.LT(1);
  }
  <super.matchSet(postmatchCode={<if(!ruleDescriptor.isSynPred)<if(backtracking)>if
    (<actions.(actionScope).synpredgate>) <endif>root_0 =
    (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);<endif> }, ...>)
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule, label, elementIndex, args, scope) ::= <%
  <super.ruleRef(...)
  if(!ruleDescriptor.isSynPred)
  {<\n  if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
  {<\n  endif>
  %>

/** rule! is same as normal rule ref */
ruleRefBang(rule, label, elementIndex, args, scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<<
  <super.ruleRef(...)
  if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 =
  (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
  >>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<<
  <ruleRef(...)
  <listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelElem(elem=[label].Tree),elemType=ASTLabelType,...)> >>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem=[label].Tree),elemType=ASTLabelType,...)> >>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (actions.(actionScope).synpredgate) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
<endif>
<endif>
>>
wildcardBang(label,elementIndex) ::= "<super.wildcard(token=[],...)>"

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (actions.(actionScope).synpredgate) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
<endif>
>>

crateNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>({if(terminalOptions.type)},{label},<if(terminalOptions текст),<terminalOptions.text; format="string">} <endif>
<else>
(<ASTLabelType>)adaptor.Create({if(terminalOptions.type)},{label},{if(terminalOptions.text),<terminalOptions.text; format="string">} <endif>
<endif>
<endif>
%>
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>) adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)>}<endif>
>>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
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*/

/*
* This code generating template and the associated C runtime was produced by:
* Jim Idle jimi|hereisanat|idle|dotgoeshere|ws.
* If it causes the destruction of the Universe, it will be pretty cool so long as
* I am in a different one at the time.
*/

cTypeInitMap ::= [
"int"    : "0",              // Integers     start out being 0
"long"   : "0",              // Longs        start out being 0
"float"  : "0.0",           // Floats       start out being 0
"double" : "0.0",           // Doubles      start out being 0
"ANTLR3_BOOLEAN" : "ANTLR3_FALSE",   // Booleans     start out being Antlr C for false
"byte"   : "0",              // Bytes        start out being 0
"short"  : "0",              // Shorts       start out being 0
"char"   : "0"              // Chars        start out being 0
]

leadIn(type) ::=
<<
/** 
*  This <type> file was generated by $ANTLR version <ANTLRVersion> 
*  -  From the grammar source file : <fileName> 
*  -                            On : <generatedTimestamp> 
*     -                 for the lexer : <name>Lexer
*     -                for the parser : <name>Parser
*     -           for the tree parser : <name>TreeParser
*  Editing it, at least manually, is not wise. 
* C language generator and runtime by Jim Idle, jimi\hereisanat\idle\dotgoeshere|ws. 
* */

outputFile( LEXER, 
    PARSER, 
    TREE_PARSER, 
    actionScope, 
    actions, 
    docComment, 
    recognizer, 
    name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitset,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
)
::=

<<
<leadIn("C source")>
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<if(actions.(actionScope).header)>
/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
<endif>

/* -----------------------------------------
* Include the ANTLR3 generated header file.
*/
#include    "<name>.h"
<actions.(actionScope).postinclude>
/* ----------------------------------------- */

<docComment>
<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with.
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/
<literals:{it | static ANTLR3_UCHAR lit_<i>[]} = <it>;} separator="\n">
<endif>

/* MACROS that hide the C interface implementations from the
* generated code, which makes it a little more understandable to the human eye.
* I am very much against using C pre-processor macros for function calls and bits
* of code as you cannot see what is happening when single stepping in debuggers
* and so on. The exception (in my book at least) is for generated code, where you are
* not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
* hides some indirect calls, but is always referring to the input stream. This is
* probably more readable than ctx->input->istream->input(snarfle0->blarg) and allows me to rejig
* the runtime interfaces without changing the generated code too often, without
* confusing the reader of the generated output, who may not wish to know the gory
* details of the interface inheritance.
*/

#defineCTXctx

/* Aids in accessing scopes for grammar programmers
*/
#undefSCOPE_TYPE
#undefSCOPE_STACK
#undefSCOPE_TOP
#defineSCOPE_TYPE(scope)\n\t$name\_##scope##_SCOPE
#defineSCOPE_STACK(scope)\n\t$name\_##scope##Stack
#defineSCOPE_TOP(scope)\n\tctx->$name\_##scope##Top
#defineSCOPE_SIZE(scope)\n\tctx->$name\_##scope##Stack_limit
#defineSCOPE_INSTANCE(scope, i)(ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope), i))

<if(LEXER)>

/* Macros for accessing things in a lexer
*/
#undefLEXER
#undefRECOGNIZER
#undefRULEMEMO
#undefGETCHARINDEX
#undefGETLINE
#undefGETCHARPOSITIONINLINE
#undefEMIT
#undefEMITNEW
#undefMATCHC
#undefMATCHS
#undefMATCHRANGE
#undefLTOKEN
#undefHASFAILED
#undefFAILEDFLAG
#undefINPUT
#undefSTRSTREAM
#undefLA
#undefHASEXCEPTION
#undefEXCEPTION
#undefCONSTRUCTEX
#undefCONSUME
#undefLRECOVER
#undefMARK
#undefREWINDLAST
#undefBACKTRACKING
#undefMATCHANY
#undef MEMOIZE
#undef HAVEPARSERULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8

#define LEXER ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE RECOGNIZER->state
#define TOKSOURCE LEXSTATE->tokSource
#define GETCHARINDEX() LEXER->getCharIndex(LEXER)
#define GETLINE() LEXER->getLine(LEXER)
#define GETTEXT() LEXER->getText(LEXER)
#define GETCHARPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() LEXSTATE->type = _type; LEXER->emit(LEXER)
#define EMITNEW(t) LEXER->emitNew(LEXER, t)
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1, c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define L_TOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)
#define BACKTRACKING LEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed
#define INPUT LEXER->input
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define EOF_TOKEN&(LEXSTATE->tokSource->eofToken)
#define HASEXCEPTION() (LEXSTATE->error == ANTLR3_TRUE)
#define EXCEPTION LEXSTATE->exception
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER() LEXER->recover(LEXER)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(ri, si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSERULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBGRECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or UTF16 input
 * stream, then we can define our macros to use the direct pointers
 * in the input object, which is much faster than indirect calls. This
 * is really only significant to lexers with a lot of fragment rules (which
 * do not place LA(1) in a temporary at the moment) and even then
 * only if there is a lot of input (order of say 1M or so).
 */
#if defined(ANTLR3_INLINE_INPUT_8BIT) || defined(ANTLR3_INLINE_INPUT_UTF16)
#else
/* 8 bit character set */
#endif

#define NEXTCHAR((pANTLR3_UINT8)(INPUT->nextChar))
#define DATAP((p AntarL3_UINT8)(INPUT->data))

#define NEXTCHAR((p AntarL3_UINT16)(INPUT->nextChar))
#define DATAP((p AntarL3_UINT16)(INPUT->data))

#define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
             (ANTLR3_UCHAR)(*(NEXTCHAR + n - 1)))
#define CONSUME() {
    if (NEXTCHAR < (DATAP + INPUT->sizeBuf)) {
        INPUT->charPositionInLine++; 
        if ((ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar) {
            INPUT->line++;
            INPUT->charPositionInLine        = 0;
            INPUT->currentLine                = (void *)(NEXTCHAR + 1);
        }
        INPUT->nextChar = (void *)(NEXTCHAR + 1);
    }
}
// Pick up the input character by calling the input stream implementation.
///<
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)
<endif>
<endif>
<if(PARSER)>
/* Macros for accessing things in the parser */
<*/
#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSERULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSERctx->pParser
#define RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#undef
HAVEPARSEDRULE
#undef
INPUT
#undef
STRSTREAM
#undef
HASEXCEPTION
#undef
EXCEPTION
#undef
MATCHT
#undef
MATCHANYT
#undef
FOLLOWSTACK
#undef
FOLLOWPUSH
#undef
FOLLOWPOP
#undef
PRECOVER
#undef
PREPORTERROR
#undef
LA
#undef
LT
#undef
CONSTRUCTEX
#undef
CONSUME
#undef
MARK
#undef
REWIND
#undef
REWINDLAST
#undef
PERERRORRECOVERY
#undef
HASFAILED
#undef
FAILEDFLAG
#undef
RECOVERFROMMISMATCHEDSET
#undef
RECOVERFROMMISMATCHEDELEMENT
#undef
BACKTRACKING
#undef
ADAPTOR
#undef
RULEMEMO
#undef
SEEK
#undef
INDEX
#undef
DBG

#define
PARSER<ctx->pTreeParser
#define
RECOGNIZERPARSER->rec
#define
PSRSTATETORECOGNIZER->state
#define
HAVEPARSEDRULE(r)RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define
INPUTPARSER->ctnstream
#define
ISTREAMINPUT->tnstream->istream
#define
STRSTREAMINPUT->tnstream
#define
HASEXCEPTION Piper PSRSTATE->error == ANTLR3_TRUE
#define
EXCEPTIONPSRSTATE->exception
#define
MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define
MATCHANYT(RECOGNIZER->matchAny(RECOGNIZER)
#define
FOLLOWSTACK PSRSTATE->following
#define
FOLLOWPUSH(x)FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define
FOLLOWPOP()FOLLOWSTACK->pop(FOLLOWSTACK)
#define
PRECOVER(RECOGNIZER->recover(RECOGNIZER)
#define
PREPORTERROR(RECOGNIZER->reportError(RECOGNIZER)
#define
LA(n)ISTREAM->_LA(ISTREAM, n)
#define LT(n) INPUT->tnstream->_LT(INPUT->tnstream, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define INDEX() ISTREAM->index(ISTREAM)
#define DBG RECOGNIZER->debugger

#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8)txt

/* The 4 tokens defined below may well clash with your own #defines or token types. If so *
* then for the present you must use different names for your defines as these are hard coded *
* in the code generator. It would be better not to use such names internally, and maybe *
* we can change this in a forthcoming release. I deliberately do not #undef these *
* here as this will at least give you a redefined error somewhere if they clash. */
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/* Functions to create and destroy scopes. First come the rule scopes, followed *
* by the global declared scopes. */
<rules: {r | <if(r.ruleDescriptor.ruleScope)}>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)}>
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)}>
<endif}> )>

<recognizer.scopes:{it | <if(it.isDynamicGlobalScope)}>
/* ============================================================================= */
/* ============================================================================= */
/* Start of recognizer */
/* */
<recognizer>

/* End of code */
/* */

headerFileExtension() ::= ".h"

headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()> 
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
* 
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
* 
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
* 
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
* 
<endif>
* The methods in p<name> are as follows:
* 
* <rules:{r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)> p<name>-><r.ruleDescriptor.name>(p<name>)<endif>}; separator="\n * ">
* 
* The return type for any particular rule is of course determined by the source
* grammar file.
*/

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// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#ifndef _<name>_H
#define _<name>_H
<stdio>(.includeScope).preincludes>
/*============================================================================
* Standard antlr3 C runtime definitions
*/
#include "antlr3.h"

/* End of standard antlr 3 runtime definitions
*/
<stdio>(.includeScope).includes>

#ifdef __cplusplus
extern "C" {
#endif

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name>_Ctx_struct <name>, * p<name>;

<stdio>(.recognizerScope.delegates)
// Include delegate definition header files
<stdio>(.recognizerScope.delegates): {g#include"<<g.recognizerName>.h>"}; separator="\n"

<stdio>(.endif)
ifdefANTLR3_WINDOWS
// Disable: Unreferenced parameter,- Rules with parameters that are not used
// constant conditional,- ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable- tree rewrite variables declared but not needed
// Unreferenced local variable- lexer rule declares but does not always use _type
// potentially uninitialized variable used- retval always returned from a rule
//unreferenced local function has been removed- susually getTokenNames or freeScope, they can go without
warnings
//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif

/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/

#include "recognizerName.h"

/** Context tracking structure for <mainName()> */
struct <name>_Ctx_struct
{
/** Built in ANTLR3 context tracker contains all the generic elements
 * required for context tracking.
 */

<pANTLR3_PARSER   pParser;

<pANTLR3_LEXER    pLexer;

<pANTLR3_TREE_PARSER pTreeParser;

<globalAttributeScopeDef(it)
<ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>

<rules: {r | <if(!r.ruleDescriptor.isSynPred)}<headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*m<r.ruleDescriptor.name>)	(struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif>r.ruleDescriptor.parameterScope:parameterScope());}<endif>}; separator="\n"

<if(!LEXER)>
<rules:{r | <headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>)	(struct
<name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif>r.ruleDescriptor.parameterScope:parameterScope());}; separator="\n"

<if(LEXER)>
<rules:{r | <if(!r.ruleDescriptor.isSynPred)}<headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*m<r.ruleDescriptor.name>)(struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif>r.ruleDescriptor.parameterScope:parameterScope());}; separator="\n"

// Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor}>
<headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*<r.ruleDescriptor.name>)(struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif>r.ruleDescriptor.parameterScope:parameterScope());}; separator="\n"

const char * (*getGrammarFileName)();
void (*reset) (struct <name>_Ctx_struct * ctx);
void (*free) (struct <name>_Ctx_struct * ctx);

/*@members*/
@end

<actions.(actionScope).context> 

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
ANTLR3_API p<name> <name>New      (<inputType()> instream<recognizer.grammar.delegators:{g|,
p<g.recognizerName> <g:delegateName()}>));
ANTLR3_API p<name> <name>NewSSD   (<inputType()> instream,<pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName()}>)}>);
@if(!recognizer.grammar.grammarIsRoot)
extern pANTLR3_UINT8 <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
@endf

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 * 
 */

/* Antlr will define EOF, but we can't use that as it it is too common in
 * in C header files and that would be confusing. There is no way to filter this out at the moment
 * so we just undef it here for now. That isn't the value we get back from C recognizers
 * anyway. We are looking for ANTLR3_TOKEN_EOF.
 */
#ifdef EOF
#undef EOF
#endif
#ifdef Tokens
#undef Tokens
#endif
			<tokens:{it | #define <it.name> <it.type>}; separator="\n">#ifdef EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif
#ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/* End of token definitions for <name>
 */

/* End of token definitions for <name> */
/* == */

Open Source Used In Crosswork Common EMS Services 4.0.0 8043
#ifdef __cplusplus

} #endif

#ifdef __cplusplus

/* END - Note: Keep extra line feed to satisfy UNIX systems */

>>

inputType() ::= <<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>

_________________________________________________________
Open Source Used In Crosswork Common EMS Services 4.0.0  8044
headerReturnType(ruleDescriptor) ::= <<
  <if(LEXER)>
  <if(!ruleDescriptor.isSynPred)>
  void
  <else>
  <returnType()>
  <endif>
  <else>
  <returnType()>
  <endif>
>>

// Produce the lexer output
//
lexer( grammar,
name,
tokens,
scopes,
rules,
umRules,
filterMode,
superClass,
labelType="pANTLR3_COMMON_TOKEN") ::= <<
  <if(filterMode)>
  /* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
   * this is a filter mode lexer.
   */
  static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource);
  /* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
   * lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
   * than just BACKTRACKING. In some cases this might generate code akin to:
   * if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
   * However, I assume that the C compilers/optimizers are smart enough to work this one out
   * these days - Jim
   */
  #undef MEMOIZE
  #define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
  #undef HAVEPARSEDRULE
  #define HAVEPARSEDRULE(r)if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER, r) }
  <endif>

  /* Forward declare the locally static matching functions we have generated and any predicate functions.
   */
  <rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
  <if(!r.ruleDescriptor.isSynPred)>m<endif> <r.ruleDescriptor.name> (p<name>
static void Free(pFree ctx);

/*
 * Lexer matching rules end.
 */

static void Free (pFree ctx)
{
    LEXER->free(LEXER);
   ANTLR3_FREE(ctx);
}

static void Reset (pReset ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** rief Name of the grammar file that generated this code
 */
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code.
 */
static const char * getGrammarFileName()
{
    return fileName;
}

;if(filterMode)>
    <filteringNextToken()>
<![endif>]

/** rief Create a new lexer called <name>
    * 
    * \param[in] instream Pointer to an initialized input stream
    * \return
    *  - Success p<name> initialized for the lex start
    *  - Fail NULL
    */
ANTLR3_API p<name> <name>New
    (<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    // See if we can create a new lexer with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** rief Create a new lexer called <name>
    * 
    * \param[in] instream Pointer to an initialized input stream
    * \param[state] state Previously created shared recognizer stat
    * \return
    *  - Success p<name> initialized for the lex start
    *  - Fail NULL
    */
ANTLR3_API p<name> <name>NewSSD
    (pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
    state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    p<name> ctx; // Context structure we will build and return

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if (ctx == NULL)
    {
        // Failed to allocate memory for lexer context
        return NULL;
    }

    /* -------------------------------------------------------------------
    * Memory for basic structure is allocated, now to fill in
    */
* in base ANTLR3 structures. We initialize the function pointers
* for the standard ANTLR3 lexer function set, but upon return
* from here, the programmer may set the pointers to provide custom
* implementations of each function.
*
* We don't use the macros defined in <name>.h here so you can get a sense
* of what goes where.
*/

/* Create a base lexer, using the supplied input stream */
ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

/* Check that we allocated the memory correctly */
if(ctx->pLexer == NULL)
{
ANTLR3_FREE(ctx);
return NULL;
}

/* Install the implementation of our <name> interface */

/* ** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE */
/* it will call mTokens() in this generated code, and will pass it the ctx */
/* pointer of this lexer, not the context of the base lexer, so store that now. */
ctx->pLexer->ctx = ctx;

/* **Install the token matching function */
ctx->pLexer->mTokens = (void (*)(void *))mTokens;

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;
ctx->reset = <name>Reset;

<if(grammar.directDelegates)>

// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
ctx<grammar.delegators:{g|, <g:delegateName()> }>;}; separator="\n"}
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()>= <g:delegateName()>:}; separator="\n"}
<endif>
<if(filterMode)>
/* We have filter mode turned on, so install the filtering nextToken function */
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

/* Return the newly built lexer to the caller */
*
    return  ctx;
}
<if(cyclicDFAs)>

/* DFA tables for the lexer */
<\cyclicDFAs:cyclicDFA()> <! \dump tables for all DFA !>
/* End of DFA tables for the lexer */
*<endif>

/* Functions to match the lexer grammar defined tokens from the input stream */
<rules; separator="\n\n">}

/* Lexer matching rules end. */
*<if(synpreds)>
filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/
static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3_LEXER    lexer;
pANTLR3_RECOGNIZER_SHARED_STATE state;

    lexer    = (pANTLR3_LEXER)(toksource->super);
    state    = lexer->rec->state;

    /* Get rid of any previous token (token factory takes care of
    * any deallocation when this token is finally used up.
    */
    state->token    = NULL;
    state->error    = ANTLR3_FALSE; /* Start out without an exception*/
    state->failed   = ANTLR3_FALSE;

    /* Record the start of the token in our input stream.
    */
    state->tokenStartCharIndex= lexer->input->istream->index(lexer->input->istream);
    state->tokenStartCharPositionInLine= lexer->input->getCharPositionInLine(lexer->input);
    state->tokenStartLine= lexer->input->getLine(lexer->input);
    state->text= NULL;
>>
/* Now call the matching rules and see if we can generate a new token */

for(;;)
{
    if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
    {
    /* Reached the end of the stream, nothing more to do. */
    pANTLR3_COMMON_TOKEN  teof = &(toksource->eofToken);

    teof->setStartIndex (teof, lexer->getCharIndex(lexer));
    teof->setStopIndex  (teof, lexer->getCharIndex(lexer));
    teof->setLine  (teof, lexer->getLine(lexer));
    return  teof;
    }

    state->token= NULL;
    state->error= ANTLR3_FALSE;  /* Start out without an exception*/

    ANTLR3_MARKER  m;

    m= lexer->input->istream->mark(lexer->input->istream);
    state->backtracking= 1; /* No exceptions */
    state->failed= ANTLR3_FALSE;

    /* Call the generated lexer, see if it can get a new token together. */
    lexer->mTokens(lexer->ctx);
    state->backtracking= 0;

    /* mTokens backtracks with synpred at BACKTRACKING==2 and we set the synpredgate to allow actions at level 1. */

    if(state->failed == ANTLR3_TRUE)
    {
        lexer->input->istream->rewind(lexer->input->istream, m);
        lexer->input->istream->consume(lexer->input->istream);  <!-- advance one char and try again -->
    }
    else
    {
        lexer->emit(lexer);  <!-- Assemble the token and emit it to the stream -->
        return state->token;
    }
}
>>
/** How to generate a parser */
genericParser( grammar, 
    name, 
    scopes, 
    tokens, 
    tokenNames, 
    rules, 
    numRules, 
    bitsets, 
    inputStreamType, 
    superClass, 
    labelType, 
    members, 
    rewriteElementType, filterMode, 
    ASTLabelType="pANTLR3_BASE_TREE"
) ::= <<

@if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
 *    error reporting.
 */
pANTLR3_UINT8 <name>TokenNames[length(tokenNames)+4]
   = {
      (pANTLR3_UINT8) "\invalid",
      (pANTLR3_UINT8) "\EOR",
      (pANTLR3_UINT8) "\DOWN",
      (pANTLR3_UINT8) "\UP",
      <tokenNames:{it |(pANTLR3_UINT8) <it>}; separator=",\n"};
}@members>

</@end>

<rules:{r |<ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>}> 
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFuncMacro(it)><endif>}> 

// Forward declare the locally static matching functions we have generated.
// 
<rules:{r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)> <r.ruleDescriptor.name> (p<name> 
    ctx <if(r.ruleDescriptor.parameterScope)> <endif> <r.ruleDescriptor.parameterScope:parameterScope()>);}; separator=",\n">
static void Free(pctx);
static void Reset (pctx);

if(!LEXER>
!
! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
if(recognizer.grammar.delegatedRules)
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)>}
<ruleDescriptor.name>(pctx<if(ruleDescriptor.parameterScope),
<endif><ruleDescriptor.parameterScope:parameterScope()>);}; separator="\n"}

atif
if
/* For use in tree output where we are accumulating rule labels via label += ruleRef
* we need a function that knows how to free a return scope when the list is destroyed.
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
*/
static void ANTLR3_CDECL freeScope(void * scope)
{
    ANTLR3_FREE(scope);
}

/** \brief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code. */
static const char * getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new <name> parser and return a context for it.
* \param[in] instream Pointer to an input stream interface.
* \return Pointer to new parser context upon success. */
ANTLR3_API p<name>
<name>New (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName()>}>)
{
    // See if we can create a new parser with the standard constructor
    // return <name>NewSSD(instream, NULL<grammar.delegators:{g|, g:delegateName()}>);
/** \brief Create a new <name> parser and return a context for it.
* @param[in] instream Pointer to an input stream interface.
* @return Pointer to new parser context upon success.
*/
ANTLR3_API p<name> <name>NewSSD (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE state<grammar.delegators:{g, p<g.recognizerName> <g:delegateName()>}>)
{
    p<name> ctx; /* Context structure we will build and return */

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if(ctx == NULL)
    {
        // Failed to allocate memory for parser context
        //
        return NULL;
    }

    /* -----------------------------------------------
    * Memory for basic structure is allocated, now to fill in
    * the base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 parser function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here, in order that you can get a sense
    * of what goes where.
    */

    <if(PARSER)>
    /* Create a base parser/recognizer, using the supplied token stream
    */
    ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
    </if>
    <if(TREE_PARSER)>
    /* Create a base Tree parser/recognizer, using the supplied tree node stream
    */
    ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
    </if>

    /* Install the implementation of our <name> interface
    */
    <rules:{r | ctx-><r.ruleDescriptor.name>= <r.ruleDescriptor.name>}; separator="\n">
<if(grammar.delegatedRules)>
// Install the delegated methods so that they appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor | ctx-><ruleDescriptor.name>= <ruleDescriptor.name>;}; separator="\n">
<endif>

cxt->free= <name>Free;
ctx->reset= <name>Reset;
ctx->getGrammarFileName= getGrammarFileName;

/* Install the scope pushing methods. */
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<rAttributeScope(scope=r.ruleDescriptor.ruleScope)><\n>
<endif>}>>
<recognizer.scopes:{it |<if(it.isDynamicGlobalScope)>
<globalAttributeScope(it)> <\n>
<endif>}>>
</@apifuncs>

</@end>
<if(grammar.directDelegates)>
// Initialize the parsers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:>
{g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE, cxt<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<endif>
<if(grammar.delegators)>
// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:>
{g|ctx-><g:delegateName()>= <g:delegateName();}; separator="\n"}
<endif>
<actions.parser.apifuncs>
<actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
/* Create a LIST for recording rule memos. */
RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>
/* Install the token table
PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

/*@debugStuff()*/

/*@debugStuff()*/

/* Return the newly built parser to the caller */
return ctx;
}

static void <name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** Free the parser resources */
static void <name>Free(p<name> ctx)
{
    /* Free any scope memory */
    {rules: {r |<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n><endif>}}
    <recognizer.scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(it)><\n><endif>}}>
    <@cleanup>
    <@end>
    <if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //
    <grammar.directDelegates: {g| ctx-><g:delegateName()>-><if(TREE_PARSER)>pTreeParser<else>pParser<endif>->rec->state = NULL;
    ctx-><g:delegateName()>->free(ctx-><g:delegateName()>);}; separator="\n"}
    <endif>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
    if(RULEMEMO != NULL)
    {
    RULEMEMO->free(RULEMEMO);
    RULEMEMO = NULL;
    }
    <endif>
    <endif>
    // Free this parser
    //

<if(TREE_PARSER>)
    ctx->pTreeParser->free(ctx->pTreeParser);
<else>
    ctx->pParser->free(ctx->pParser);
<endif>

ANTLR3_FREE(ctx);

/* Everything is released, so we can return */
return;
}

/** Return token names used by this <grammarType()>
 *
 * The returned pointer is used as an index into the token names table (using the token
 * number as the index).
 *
 * \return Pointer to first char * in the table.
 */
static pANTLR3_UINT8    *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets */
*/
<bitsets:{it | <bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)}>}

<if(cyclicDFAs>)

/* ==============================================================
 * DFA tables for the parser */
*/
<cyclicDFAs:cyclicDFA()> ! dump tables for all DFA !
/* ==============================================================
 * End of DFA tables for the parser */
*/
<endif>

/* ================================================================
 * Parsing rules */
*/
<rules; separator="\n\n">
// Delegated methods that appear to be a part of this parser

// Delegated methods that appear to be a part of this parser

/* End of parsing rules */
/* Syntactic predicates */
/* End of syntactic predicates */

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTTLabelType, superClass="Parser", labelType="pANTLR3_COMMON_TOKEN", members={ <actions.parser.members> } ) ::=<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN", ...)>
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
filterMode,
labelType={ <ASTLabelType> },
ASTLabelType="pANTLR3_BASE_TREE",
superClass="TreeParser",
members=[ <actions.treeparser.members> ]
):= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
// $ANTLR start <ruleName>
static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope()>)
{
<ruleLabelDefs()>
<ruleLabelInitializations()>
<if(trace)>
ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
<block>
ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
<else>
<block>
<endif>
<ruleCleanUp()>
}
synpred(predname) ::= <<
static ANTLR3_BOOLEAN <predname>(p<name> ctx)
{
    ANTLR3_MARKER start;
    ANTLR3_BOOLEAN success;

    BACKTRACKING++;
    #@start()#
    start = MARK();
    <predname>_fragment(ctx); // can never throw exception
    success = !(FAILEDFLAG);
    REWIND(start);
    #@stop()#
    BACKTRACKING--;
    FAILEDFLAG = ANTLR3_FALSE;
    return success;
}<<

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
@if(memoize)
if ( (BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)) )
{
@if(!ruleDescriptor.hasMultipleReturnValues)
@if(!ruleDescriptor.isSynPred)
retval.start = 0;<<
@endif
@if(!ruleDescriptor.isSynPred)
<scopeClean()><
@endif
@if(!ruleDescriptor.isSynPred)
<finalCode(finalBlock=finally)><
@endif
@if(!ruleDescriptor.isSynPred)
return <ruleReturnValue()>;
}@endif
}<<

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if  (HASEXCEPTION())
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)
if (BACKTRACKING>0)
{
    FAILEDFLAG = <true_value>();
    <scopeClean()>
    return <ruleReturnValue()>
}
@endif
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*** Start of rule def for $ruleName */
$ANTLR start <ruleName>
<fileName>:<description>
</ Türsgasse:1542988847>
static <returnType()> <ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
    <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
BACKTRACKING),<endif>
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <ruleLabelDefs()>
    <ruleInitializations()>
    <ruleDescriptor.actions.init>
    <ruleMemoization(rname=ruleName)>
    <ruleLabelInitializations()>
    <@preamble()>
    
}
<block>
</block>

<ruleCleanUp()>
<if(exceptions())>
if(HASEXCEPTION())
{
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}}
}
else
{
<(ruleDescriptor.actions.after):execAfter()>
}
<else>
<if(!emptyRule())>
<if(actions.(actionScope).rulecatch)
<actions.(actionScope).rulecatch>
<else>
if (HASEXCEPTION())
{
    PREPORTERROR();
    PRECOVER();
    <setErrorReturnValue()>
}
<if(ruleDescriptor.actions.after)>
else
{
    <(ruleDescriptor.actions.after):execAfter()>
}<\n>
<endif>
<endif>
<endif>
<endif>
</if(trace)>ANTLR3_PRINTF("exit <ruleName> failed=%s backtracking=%s\n", LT(1), failed, BACKTRACKING);<endif>
<memoize()>
<finalCode(finalBlock=finally())>
<endif>
<scopeClean()>
<@postamble()>
return <ruleReturnValue()>
;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
catch(decl, action) ::= << */ catch(decl, action) */ {
    <e.action>
}
>>

ruleDeclarations() ::= << if(ruleDescriptor.hasMultipleReturnValues)
    <returnType()> retval;<
<else>
    <ruleDescriptor.returnScope.attributes:{ a |
    <a.type> <a.name>; |}
    <endif>
    <if(memoize)
    ANTLR3_MARKER <ruleDescriptor.name>_StartIndex;
    <endif>
>>

ruleInitializations() ::= << /* Initialize rule variables */
if(ruleDescriptor.hasMultipleReturnValues)
    <ruleDescriptor.returnScope.attributes:{ a |
if(a.initValue)retval.<a.name> = <a.initValue>; |}
    <else>
    <ruleDescriptor.returnScope.attributes:{ a |
if(a.initValue)<a.name> = <a.initValue>; |}
    <endif>
    <if(memoize)
    <ruleDescriptor.name>_StartIndex = INDEX();
    <endif>
    <ruleDescriptor.useScopes:{it |
<scopeTop(it)> = <scopePush(it)>;}; separator="\n"
    <ruleDescriptor.ruleScope:{it |
<scopeTop(it.name)> = <scopePush(it.name)>;}; separator="\n"
>>

ruleLabelDefs() ::= <<
ruleLabelInitializations() ::= <<
<<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
:([it |<labelType> <it.label.text>;]; separator="\n"
>
<<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
:([it |pANTLR3_VECTOR list_<it.label.text>;]; separator="\n"
>
<<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
:ruleLabelDef(); separator="\n"
>
>>

lexerRuleLabelDefs() ::= <<
<<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels]
:([it |<labelType> <it.label.text>;]; separator="\n"
>
<<[ruleDescriptor.charLabels:{it |ANTLR3_UINT32 <it.label.text>;}; separator="\n"
>
<<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleListLabels]
:([it |pANTLR3_INT_TRIE list_<it.label.text>;]; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels]
:([it |<it.label.text> = NULL;]; separator="\n"
>
>>
lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |list_<it.label.text> = NULL;}; separator="n"
>
<<
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it |list_<it.label.text>->free(list_<it.label.text>);}; separator="n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
ruleDescriptor.singleValueReturnName
<else>
retval
<endif>
<endif>
<endif>
%>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( BACKTRACKING>0 ) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<TREE_PARSER>

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scopeClean() ::= <<
<ruleDescriptor.useScopes:{it |<scopePop(it)>}; separator="\n">
<ruleDescriptor.ruleScope:{it |<scopePop(it.name)>}; separator="\n">
>>
/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules, which do not produce tokens.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
* 
* $ANTLR start <ruleName>
* 
* Looks to match the characters the constitute the token <ruleName>
* from the attached input stream.
* 
* 
* \remark
* - lexer->error == ANTLR3_TRUE if an exception was thrown.
*/
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
ANTLR3_UINT32	_type;
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<lexerRuleLabelDefs()>
<if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+" line="+GETLINE()+":"+GETCHARPOSITIONINLINE()+" failed="+failed+" backtracking="+BACKTRACKING);
<endif>

<if(nakedBlock)>
<ruleMemoization(rname=ruleName)>
<br><lexerRuleLabelInit()>
<ruleDescriptor.actions.init>

<block>
<\n>
<else>
<ruleMemoization(rname=ruleName)>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
* wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
*/
static void
mTokens(p<name> ctx)
{
   <block><

   goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
{
   int alt<decisionNumber>=%<maxAlt>;
   <decls>
   @predecision() 
   <decision> 
   @postdecision() 
   @prebranch()
}}
switch (alt<decisionNumber>)
{
    <alts:{a | <altSwitchCase(i,a)>}>
    @postbranch()
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description>
ANTLR3_UINT32 alt<decisionNumber>;

    alt<decisionNumber>=<maxAlt>;

    <decls>
    @predecision()
    <decision>
    @postdecision()
    switch (alt<decisionNumber>)
    {
        <alts:{a | <altSwitchCase(i,a)>}>
    }
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>::<description>
    <decls>
    @prealt()
    <alts>
    @postalt()
    >>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>::<description>
    <decls>
    @prealt()
    <alts>
    @postalt()
    >>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>::<description>
{
    int cnt<decisionNumber>=0;
    <decls>
    <$preloop()>

        for (;;) {
            int alt<decisionNumber>=<maxAlt>;
    <$predecision()>
        <decision>
    <$postdecision()>
        switch (alt<decisionNumber>) {
            <alts:{a | <altSwitchCase(i,a)>}>}
            default:

                if ( cnt<decisionNumber> >= 1 ) {
                    goto loop<decisionNumber>;
                }
        <$ruleBacktrackFailure()>
    <$earlyExitEx()>
    <$@earlyExitException()>
        goto rule<ruleDescriptor.name>Ex;
    }
    cnt<decisionNumber>++;
    }
    loop<decisionNumber>: ; /* Jump to here if this rule does not match */
    <$@postloop()>
}

earlyExitEx() ::= <<
/* mismatchedSetEx() */
*/
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<$un>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>::<description>
<decls>

@foreachloop()
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    {@predecision()}
    <decision>
    {@postdecision()}
    switch (alt<decisionNumber>)
    {
    <alts:{a | <altSwitchCase(i,a)>}>}
    default:
       goto loop<decisionNumber>;/* break out of the loop */
    break;
    }
}
loop<decisionNumber>;/* Jump out to here if this rule does not match */
{@postloop()}
>>&gt;

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
*  so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
*  number.  A DFA predicts the alternative and then a simple switch
*  does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum,alt) ::= <<
    case <altNum>:
    {@prealt()}
    <alt>
    break;<n>
>>&gt;

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {
    {@declarations()}
    {@initializations()}
    <elements:element()>
    <decls>
// ELEMENTS
/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element(e) ::= <<
<prematch()>
<e.el><
>e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label> = (<labelType>)<endif> MATCHT(<token>,
&FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)><listLabel(elem=label,...)>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)><listLabel(elem=label,...)>>

/** match a character */
charRef(char,label) ::= <<
<if(label)><label> = LA(1);<\n>
<endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>
/** match a character range */
charRangeRef(a, b, label) ::= <<
  if(label)>
  <label> = LA(1);<
>
  endif>
MATCHRANGE(<a>, <b>);
  <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s, label, elementIndex, terminalOptions, postmatchCode="") ::= <<
  if(label)>
  <if(LEXER)>
  <label>= LA(1);<
  <else>
  <label>=(<labelType>)LT(1);<
  <endif>
  <endif>
  if ( <s> )
    {
      CONSUME();
      <postmatchCode>
      if(!LEXER)>
      PERRORRECOVERY=ANTLR3_FALSE;
      <endif>
      <if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<
      <endif>
    } else
    {
      <ruleBacktrackFailure()> 
      <mismatchedSetEx()>
      @mismatchedSetException()>
      <if(LEXER)>
      LRECOVER();
      <else>
      RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
      <endif>
      goto rule<ruleDescriptor.name>Ex;
    }<
  >
>>
mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type     = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name     = (void *)ANTLR3_MISMATCHED_SET_NAME;
  <if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
  <endif>
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)
  <listLabel(elem=label,...)
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
  <if(label>
  <label>Start = GETCHARINDEX();
  MATCHS(<string>);
  <checkRuleBacktrackFailure()>
  <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
  <label>->setType(<label>, ANTLR3_TOKEN_INVALID);
  <label>->setStartIndex(<label>, <label>Start);
  <label>->setStopIndex(<label>, GETCHARINDEX()-1);
  <label>->input = INPUT->tnstream->istream;
  <else>
  MATCHS(<string>);
  <checkRuleBacktrackFailure()>
  <endif>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <if(label>
  <label>=(<labelType>)LT(1);<
  <endif>
  MATCHANYT();
  <checkRuleBacktrackFailure()>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <wildcard(...)
  <listLabel(elem=label,...)
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label>
  <label> = LA(1);<
  <endif>
  MATCHANY();
  <checkRuleBacktrackFailure()>

>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()>-><endif><rule.name>(ctx<if(scope)>><scope:delegateName()><endif><if(args)>, <args; separator=", "><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>><scope:delegateName()><endif> <if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>><scope:delegateName()><endif> <if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>

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lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
  <lexerRuleRef(...)>
  <listLabel(elem=label,...)>
>>

lexerMatchEOF(label, elementIndex) ::= <<
  <if(label)>
  |
    ANTLR3_UINT32 <label>Start<elementIndex>;
    <labelType> <label>:
    <label>Start<elementIndex> = GETCHARINDEX();
    MATCHC(ANTLR3_CHARSTREAM_EOF);
    <checkRuleBacktrackFailure()>
    <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);<label>
    <label>->setType(<label>, ANTLR3_TOKEN_EOF);
    <label>->setStartIndex(<label>, <label>Start<elementIndex>);
    <label>->setStopIndex(<label>, GETCHARINDEX()-1);
    <label>->input = INPUT->tnstream->istream;
  }
  <else>
    MATCHC(ANTLR3_CHARSTREAM_EOF);
    <checkRuleBacktrackFailure()>
  <endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= ": _p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg() \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src, name) ::= "$<name>=$<src>.-<name>;"

/* match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
  if ( LA(1)==ANTLR3_TOKEN_DOWN ) { 
    MATCHC(ANTLR3_TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    MATCHC(ANTLR3_TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) )
{
    <ruleBacktrackFailure()>
    <newFPE(>)>
}
>>

newFPE() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_FAILED_PREDICATE_EXCEPTION;
EXCEPTION->message = (void *)"<description>";
EXCEPTION->ruleName = (void *)"<ruleName>";
<n>
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredicatesAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber><stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
    else
    {
        if(eotPredicatesAlt)
            alt<decisionNumber>=<eotPredicatesAlt>;
        <else>
            <ruleBacktrackFailure()>
            <newNVException()>
            goto rule<descriptor.name>Ex;
        <endif>
    }
newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state = <stateNumber>;
<@noViableAltException()>

/**< Same as a normal DFA state except that we don't examine lookahead
*  for the bypass alternative. It delays error detection but this
*  is faster, smaller, and more what people expect. For (X)? people
*  expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<}
  int LA<decisionNumber>_<stateNumber> = LA(<k>);
  <edges; separator="\n else ">
}

/**< A DFA state that is actually the loopback decision of a closure
*  loop. If end-of-token (EOT) predicts any of the targets then it
*  should act like a default clause (i.e., no error can be generated).
*  This is used only in the lexer so that for (a)* on the end of a rule
*  anything other than 'a' predicts exiting.
*/
dfaLoopbackStateDecls()::= <<
ANTLR3_UINT32  LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) */
  int LA<decisionNumber>_<stateNumber> = LA(<k>);
  <edges; separator="\nelse ">
  <if(eotPredictsAlt)>
  <if(edges)>
  alt<decisionNumber>=<eotPredictsAlt>; <!-- if no edges, don't gen ELSE !>
  </if>
  else
  { alt<decisionNumber>=<eotPredictsAlt>;
  }"
**An accept state indicates a unique alternative has been predicted */

| dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;" |

**A simple edge with an expression. If the expression is satisfied,*
* enter to the target state. To handle gated productions, we may*
* have to evaluate some predicates for this edge.*

| dfaEdge(labelExpr, targetState, predicates) ::= << |
| if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>) ) |
| { |
|    <targetState> |
| } |

//-- Fixed DFA (switch case)

**A DFA state where a SWITCH may be generated. The code generator*
* decides if this is possible: CodeGenerator.canGenerateSwitch().*

| dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= << |
| switch ( LA(<k>) ) |
| { |
|    <edges; separator="\n"> |
| default: |
|    <if(eotPredictsAlt)> |
|    alt<decisionNumber>=eotPredictsAlt; |
|    <else> |
|    <ruleBacktrackFailure()> |
|    <newNVException()> |
|    goto rule<ruleDescriptor.name>Ex;<\n |
|    <endif> |
| }<\n |

| dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= << |
| switch ( LA(<k>) ) |
| { |
|    <edges; separator="\n"> |
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>
dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n">
{
<targetState>
}
break;
>>
// C y c l i c D F A
/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>
/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
* which are then used to statically initialize the dfa structure, which means that there
* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
* <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
{

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const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
    
const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
    
const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
    
const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
    
/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL

/* Transition tables are a table of sub tables, with some tables
 * reused for efficiency.
 */
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
    
;if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer, pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
    ANTLR3_INT32 _s;
    switch (s)
    {
    <dfa.specialStateSTs: {state | case <i0>:}
if (BACKTRACKING > 0) {
    FAILEDFLAG = ANTLR3_TRUE;
    return -1;
}

CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<dfa.description>";
EXCEPTION->decisionNum = <dfa.decisionNumber>;
EXCEPTION->state = _s;

return -1;

} /* Declare tracking structure for Cyclic DFA <dfa.decisionNumber> */

static ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber> = {
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const pANTLR3_UCHAR)"<dfa.description>",
    <if(dfa.specialStateSTs)>
    (CDFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
    <else>
    (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition,/* Default special state transition function*/
    </endif>
    (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition,/*/ Default special state transition function*/
}

/* DFA specialTransition is currently just a default function in the runtime */
antlr3dfaspecialTransition;/*/ DFA simulator function is in the runtime */
dfa<dfa.decisionNumber>_eot, /* EOT table */
dfa<dfa.decisionNumber>_eof, /* EOF table */
dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
dfa<dfa.decisionNumber>_accept,/* Accept table */
dfa<dfa.decisionNumber>_special,/* Special transition states */
dfa<dfa.decisionNumber>_transitions/* Table of transition tables */
/** A state in a cyclic DFA; it's a special state and part of a big switch on */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{    
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<
ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<
    LA<decisionNumber>_<stateNumber> = LA(1);<
    <if(semPredState)> ! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = INDEX();<
REWINDLAST();<
    <endif>
    s = -1;
    <edges; separator="\nelse">
    <if(semPredState)> ! return input cursor to state before we rewound !>
SEEK(index<decisionNumber>_<stateNumber>);<
    </if>
    if ( s>=0 )
    {
    return s;
    }
    }
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>) )
{
    s = <targetStateNumber>;
}<
>>

/** An edge pointing at end-of-token; essentially matches any char; */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>
// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) && (<right>) )"

orPredicates(operands) ::= "((operands: {o|(<o>)}; separator="||">)"

notPredicate(pred) ::= "!( evalPredicate(pred,{}) )"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>(ctx)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
  * somewhere.  Must ask for the lookahead directly.
  */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
  ((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> <= <upper>))
%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) >= <lower>) &&
  (LA(<k>) <= <upper>))"

setTest(ranges) ::= "<ranges; separator=" || ">

// ATTRIBUTES

makeScopeSet() ::= <<
/* makeScopeSet()
*/
/** Definition of the <scope.name> scope variable tracking
 * structure. An instance of this structure is created by calling
 * <name>_<scope.name>Push().
 */
typedef struct <scopeStruct(sname=scope.name,...)>_struct
{
  /** Function that the user may provide to be called when the
   * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
   *
   * \param POinter to an instance of this typedef/struct
   */
  void (ANTLR3_CDECL *free)(struct <scopeStruct(sname=scope.name,...)>_struct * frame);

  /*================================================================================
   * Programmer defined variables...
   */
}}
/*
<scope.attributes:[it |<it.decl>;]; separator="\n">

/* End of programmer defined variables
*===============================================================================
*/
}
<scopeStruct(sname=scope.name,...), * <scopeType(sname=scope.name,...)>;

>>
globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncDecl(scope) */
<if(scope.attributes)>
/* Function declaration for creating a <name>_<scope.name> scope set */
static <scopeType(sname=scope.name,...)>   <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----------------------------------------------------------------------------- */
<endif>

<endif>

>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope) */
/* Function for popping the top value from a <scopeStack(sname=scope.name)> */

<<...>>
void <scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if(SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>(ctx-><scopeStack(sname=scope.name,...)>)-
    >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}
<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
    <if(scope.attributes)>
    /* ruleAttributeScopeFuncDecl(scope) */
    */
    /* ------------------------------------------------------------------------ */
    * Function declarations for creating a <name>_<scope.name> scope set
    */
    static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
    static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
    /* ------------------------------------------------------------------------ */
    */
</endif>
>>

ruleAttributeScopeFuncMacro(scope) ::= <<
    <if(scope.attributes)>
    /* ruleAttributeScopeFuncMacro(scope) */
    */
    /* Function for popping the top value from a <scopeStack(sname=scope.name,...)> */
    */
    void <scopePopName(sname=scope.name,...)>(p<name> ctx)
    {
        // First see if the user defined a function they want to be called when a

// scope is popped/freed.

// If the user supplied the scope entries with a free function, then call it first

if(SCOPE_TOP(<scope.name>)->free != NULL)
{
    SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
}

// Now we decrement the scope's upper limit bound. We do not actually pop the scope as
// we want to reuse scope entries if we do continuous push and pops. Most scopes don't
// next too far so we don't want to keep freeing and allocating them

ctx-><scopeStack(sname=scope.name,...)>_limit--;
SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name,...)>(ctx-><scopeStack(sname=scope.name,...)>-get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));

<endif>

]];}

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>()  */

pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>_limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)> */

<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct * ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>() */

pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<sctype(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct * ctx);
<sctype(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

</code>

globalAttributeScopeFuncs(scope) ::= <<
@if(scope.attributes)
/* globalAttributeScopeFuncs(scope) */
<attributeFuncs(scope)>
@endif
>>

ruleAttributeScopeFuncs(scope) ::= <<
@if(scope.attributes)
/* ruleAttributeScopeFuncs(scope) */
<attributeFuncs(scope)>
@endif
>>

globalAttributeScope(scope) ::= <<
@if(scope.attributes)
/* globalAttributeScope(scope) */
ctx-><scopePushName(sname=scope.name,...)>     = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)>    = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit    = 0;
<scopeTop(sname=scope.name,...)>      = NULL;
@endif
>>

ruleAttributeScope(scope) ::=
<<
@if(scope.attributes)
/* ruleAttributeScope(scope) */
ctx-><scopePushName(sname=scope.name,...)>     = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)>    = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit    = 0;
<scopeTop(sname=scope.name,...)>      = NULL;
@endif
>>

globalAttributeScopeFree(scope) ::= <<
@if(scope.attributes)
/* globalAttributeScopeFree(scope) */
ctx-><scopePushName(sname=scope.name,...)>     = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)>    = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit    = 0;
<scopeTop(sname=scope.name,...)>      = NULL;
@endif
>>
/* globalAttributeScope(scope)
 */
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

ruleAttributeScopeFree(scope) ::= <<
<if(scope.attributes>
/* ruleAttributeScope(scope)
 */
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<
p<name>_<sname>Push
>>

scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>

scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>

scopeStack(sname) ::= <<
attributeFuncs(scope) ::= <<
    /* attributeFuncs(scope) */
*/

static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{
    ANTLR3_FREE(scope);
}

/** 
brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and 
* add it to the top of the stack. 
*/

* \remark 
* By default the structure is freed with ANTLR_FREE(), but you can use the 
* the \@init action to install a pointer to a custom free() routine by 
* adding the code: 
* `\code 
* <scopeTop(sname=scope.name)>->free = myroutine; 
* `\endcode 
* 
* With lots of comments of course! The routine should be declared in 
* \@members { } as: 
* `\code 
* void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr). 
* `\endcode 
* 
* It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free()) 
* NB: It should not free the pointer it is given, which is the scope stack entry itself 
* and will be freed by the function that calls your custom free routine. 
* */

static <scopeType(sname=scope.name)> <scopePushName(sname=scope.name)>(p<name> ctx)
{
    /* Pointer used to create a new set of attributes 
*/
    <scopeType(sname=scope.name)> newAttributes;

    /* Allocate the memory for a new structure if we need one. 
*/
    if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-
        <scopeStack(sname=scope.name)>._limit)
    {
        // The current limit value was less than the number of scopes available on the stack so 

we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
is one less than that, or conveniently, the current value of limit.

newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>._limit);
}
else
{
    // Need a new allocation
    //
    newAttributes = (<scopeType(sname=scope.name)>)ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
    if  (newAttributes != NULL)
    {
        /* Standard ANTLR3 library implementation
        */
        ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes,
            (void (*)(void *))<scope.name>Free);
    }
}

// Blank out any previous free pointer, the user might or might install a new one.
//
newAttributes->free = NULL;

// Indicate the position in the available stack that the current level is at
//
ctx-><scopeStack(sname=scope.name)>._limit++;

/* Return value is the pointer to the new entry, which may be used locally
* without de-referencing via the context.
*/
return  newAttributes;
</n>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(!ruleDescriptor.hasMultipleReturnValues)>
    <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
    <ruleDescriptor.hasSingleReturnValue>
        <ruleDescriptor.singleValueReturnType>
    <else>
        void
    </else>
</if>
</if>

returnStructName(r) ::= "<r.name>_return"
ANTLR3_BOOLEAN

/** Generate the C type associated with a single or multiple return
* value(s).
*/
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
%>
delegateName(d) ::= <<
<if(d.label)><d.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "0".
*/
initValue(typeName) ::= <<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
#undef RETURN_TYPE_<label.label.text>
#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)>\n
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
/*
returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(!ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
*/
pANTLR3_COMMON_TOKEN    start;
pANTLR3_COMMON_TOKEN    stop;
<else>
<recognizer.ASTLabelType>       start;
<recognizer.ASTLabelType>       stop;
@endif>
</@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{it |<it.type> <it.name>;}; separator="\n">
</ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;
</ruleDescriptor:returnStructName()>
@endif>
@endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl>}; separator="", "">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
* grammar name directly
*/
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>))->get( ctx->SCOPE_STACK(<scope>), ctx->SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 )))-><attr.name>
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>))->get( ctx->SCOPE_STACK(<scope>), (ANTLR3_UINT32)index )))-><attr.name>
<else>
(SCOPE_TOP(<scope>))-><attr.name>
@endif>
@endif>
@endif>
%>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  <if(negIndex)>
  ((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ) ))-><attr.name> = <expr>;
  <else>
  <if(index)>
  ((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>), (ANTLR3_UINT32)<index> ) ))-><attr.name> = <expr>;
  <else>
  (SCOPE_TOP(<scope>))-><attr.name> = <expr>;
  <endif>
  <endif>
  <endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {if function.size()>0 && function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <scope>.<attr.name>
  <else>
  <scope>
  <endif>
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  <attr.name>
  <endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> = <expr>;
  <else>
  <attr.name> = <expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"
/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->tree)"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>->getText(<scope>))->toInt32(<scope>->getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR->getTokenStopIndex(ADAPTOR, retval.start))
<else>
STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
<<

rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "((LEXER->getCharIndex(LEXER)-1))"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
*  any garbage collection, after code is executed even in backtracking
*  mode. Must be documented clearly.
*/
execAfter(action) ::= <<
  {
    <action>
  }
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if ( <actions.(actionScope).synpredgate> )
      {
        <action>
      }
      <else>
        if ( BACKTRACKING == 0 )
        {
          <action>
        }
      <endif>
    <else>
    {<action>
    }
  <endif>
</if>
// M I S C (properties, etc...)

bitsetDeclare(name, words64) ::= <<
/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD _bits[] = { <words64:[it |ANTLR3_UINT64_LIT(<it>)]}; separator=" ", ">
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)>};
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);
>>

codeFileExtension() ::= ".c"

true_value() ::= "ANTLR3_TRUE"
false_value() ::= "ANTLR3_FALSE"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/C.stg
No license file was found, but licenses were detected in source scan.

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/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

```
@outputFile.imports() ::= <<
<@super.imports()>
import org.stringtemplate.v4.*;
import java.util.HashMap;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
/* ST returnScope.ruleReturnMembers -- empty */
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.memvars() ::= <<
ST *st;
>>

/** Add this to each rule's return value struct */
@property (retain) ST *st;

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methodsDecl() ::= <<
- (ST *)getTemplate;
- (NSString *)toString;
>>

/** Add this to each rule's return value struct */
@synthesize st;

/** Add this to each rule's return value struct */
-getTemplate { return st; }
-toString { return st==nil?nil:[st render]; }

@genericParser.members() ::= <<
STGroup *templateLib = [STGroup newSTGroup];

-(void)setTemplateLib:(STGroup *)aTemplateLib
{
    self.templateLib = aTemplateLib;
}

-(STGroup *)getTemplateLib
{
    return templateLib;
}

STGroup *templateLib; /* ST -- really a part of STAttrMap */

@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib
  {
    templateLib = aTemplateLib;
  }

>>

@genericParser.members() ::= <<
  @@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (STGroup *) getTemplateLib
  {
    return templateLib;
  }

- (void) setTemplateLib:(STGroup *) templateLib
  {
    this.templateLib = templateLib;
  }

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(rule,label,elementIndex,args,scope)>
  <listLabel(label, { [ <label> getTemplate]; })>
>>

rewriteTemplate(alts) ::= <<
  // TEMPLATE REWRITE
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
      <if(rewriteMode)><replaceTextInLine()><endif>
    }
    <else>
    <alts:rewriteTemplateAlt(); separator="else ">
      <if(rewriteMode)><replaceTextInLine()><endif>
    <endif>
  }>

  replaceTextInLine() ::= <<
    <if(TREE_PARSER)>
      [[(TokenRewriteStream)input getTokenStream]]
      replaceFromIndex:[[input getTreeAdaptor] getTokenStartIndex:retval.start]
      ToIndex:[[input getTreeAdaptor] getTokenStopIndex:retval.start]
  }>

}
/** Invoke a template with a set of attribute name/value pairs. */
** Set the value of the rule's template *after* having set
** the attributes because the rule's template might be used as
** an attribute to build a bigger template; you get a self-embedded
** template.
*/
rewriteExternalTemplate(name, args) ::= <%
<if(args)><args:{a | [ ]}<endif>
[templateLib getInstanceOf:@"<name>" ]
<if(args)><args:{a | add:@"<a.name" value:<a.value> | ]}<endif>;%
%

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
<if(args)><args:{a | [ ]}<endif>
[templateLib getInstanceOf:<expr> ];
<if(args)><args:{a | add:@"<a.name" value:<a.value> | ]}<endif>;%
%

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
<if(args)><args:{a | [ ]}<endif>
/** plain -> {foo} action */
rewriteAction(action) ::= <<
    <action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
    [(<st>) setAttribute:@"<attrName>" value:<expr>];
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
    [ST newST:templateLib template:<stringExpr>];
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ST4ObjC.stg
No license file was found, but licenses were detected in source scan.

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*/

csharpVisibilityMap ::= [
"private":"private",
"protected":"protected",
"public":"public",
"fragment":"private",
default:"private"
]

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, 
docComment, recognizer, 
name, tokens, tokenNames, rules, cyclicDFAs, 
bitsets, buildTemplate, buildAST, rewriteMode, profile, 
backtracking, synpreds, memoize, numRules, 
fileName, ANTLRVersion, generatedTimestamp, trace, 
scopes, superClass, literals) ::=
<<
//\-----------------------------------------------
// \auto-generated
// \ This code was generated by a tool.
// \ ANTLR Version: <ANTLRVersion>
// 
// Changes to this file may cause incorrect behavior and will be lost if
// \ the code is regenerated.
// \\auto-generated
//\-----------------------------------------------

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 219
// Unreachable code detected.
#pragma warning disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591
// CLS compliance checking will not be performed on 'type' because it is not visible from outside this assembly.
#pragma warning disable 3019
<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
<@end>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
// namespace <actions.(actionScope).namespace>
<endif>
<endif>
>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif> },
   rewriteElementType={}, ASTLabelType={ }) ::= <<
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}
<actions.lexer.members>

// delegates
<grammar.delegates:
{[glprivate <g.recognizerName> <g:delegateName()>;]; separator="\n"}
// delegators
<grammar.delegators:
{[glprivate <g.recognizerName> <g:delegateName()>;]; separator="\n"}
<last(grammar.delegators):[glprivate <g.recognizerName> gParent;]>

```
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>
 |
 OnCreated();
 |
</actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> } > ) ) : this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName()> } > ) )
 |

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> } > ) : base(input, state)
 |
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
 {g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|, <p:delegateName()> }>, this);}; separator="\n">
<grammar.delegators:
 {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>
OnCreated();
 |
public override string GrammarFileName { get { return "<fileName>"; } }
 |
<if(grammar.hasDelegates)>
public override <lexerInputStreamType()> CharStream
 |
{ get
 |
return base.CharStream;
 |
}
 |
set
 |
base.CharStream = value;
 |
<grammar.directDelegates:
 {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()> }>,
 |
this);}; separator="\n"
<grammar.delegators:
 {g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>
}
**A override of Lexer.nextToken() that backtracks over mTokens() looking**
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
public override IToken NextToken() { 
}
while (true)
{
if (input.LA(1) == CharStreamConstants.EndOfFile)
{
IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, input.Index, input.Index);
eof.Line = Line;
eof.CharPositionInLine = CharPositionInLine;
return eof;
}
state.token = null;
state.channel = TokenChannels.Default;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
int m = input.Mark();
state.backtracking=1; // means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume(); // advance one char and try again !>
}
else
{
Emit();
return state.token;
}
catch (RecognitionException re)
{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}
public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);
return false;
}
>>

actionGate() ::= "state.backtracking == 0"
filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputInputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="object") ::= <
    [System.CLSCompliant(false)]
    <parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
    <@superClassName><superClass><@end>
    {
    <if(grammar.grammarIsRoot)>
    internal static readonly string[] tokenNames = new string[] {
        "<invalid>", "<EOR>", "<DOWN>", "<UP>", 
        , tokenNames; separator=""," >
    };
    <endif>
    <tokens: {it|public const int <it.name; format="id">=<it.type>;}; separator="\n" >
    <if(grammar.delegates)>
    // delegates
    <grammar.delegates: {
        [g private <g.recognizerName> <g.delegateName>();]; separator="\n" >
        <endif>
    <if(grammar.delegators)>
    // delegators
    <grammar.delegators: {
        [g private <g.recognizerName> <g.delegateName>();]; separator="\n" >
    <last(grammar.delegators): [g private <g.recognizerName> gParent; ]>
    <endif>
    <if(grammar.delegates)>
    public override void SetState(RecognizerSharedState state)
{ 
base.SetState(state); 
<grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
}

@if(TREE_PARSER)>
public override void SetTreeNodeStream(ITreeNodeStream input) 
{ 
base.SetTreeNodeStream(input); 
<grammar.delegates:{g|<g:delegateName()>.SetTreeNodeStream(input);}; separator="\n">
} 
@endif>
@endif>

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> 
@members() 

public override string[] TokenNames { get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; } } 
public override string GrammarFileName { get { return "<fileName>"; } }

@members>

partial void OnCreated(); 
partial void EnterRule(string ruleName, int ruleIndex); 
partial void LeaveRule(string ruleName, int ruleIndex); 

#region Rules 
@rules; separator="\n" 
#endregion Rules 

@if(grammar.delegatedRules)> 
#ifndef generate rule/method definitions for imported rules so they 
appear to be defined in this recognizer. !>
#region Delegated rules 
<grammar.delegatedRules:{ruleDescriptor| <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleDescriptor.name; format="id">(<ruleDescriptor.parameterScope:parameterScope()>)<!throws RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name; format="id">(<if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope.attributes:{a|<a.name; format="id">}; separator="\"; "}<endif>); \}}; separator="\n" >
#endregion Delegated rules 
@endif>

<insertSynpreds(synpreds)>

@if(cyclicDFAs)>

#region DFA
<code>
protected override void InitDFAs()
{
    base.InitDFAs();
    <code>
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
    SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
    }
<code>
<region DFA</code></code>
@endregion DFA
<endif>

@if(bitsets)>
#region Follow sets
private static class Follow
{
    <code>
    <bitsets:{it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">
    }
@endregion Follow sets
<endif>

@endif>

@endif>

@endif>

@genericParser.members() ::= <<
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g:delegateName()>}>)
{
}
</actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, state)
{
@if(grammar.directDelegates)>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>,
this);}; separator="\n">
@endif>
@if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
@endif>
@if(grammar.delegators)>
<last(grammar.delegators):{g|gParent = <g:delegateName()>;}> 
@endif>
@endif>
<parserCtorBody()>
OnCreated();
}
>>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public</endif>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<length(grammar.allImportedRules)>+1];<! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator=":n"
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="object",
superClass={!if(actions.(actionScope).superClass)!actions.(actionScope).superClass}<else>Antlr.Runtime.Parser</endif>,</!
members={!actions.parser.members}>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
numRules, bitsets, filterMode, labelType={!ASTLabelType}>], ASTLabelType="object",
superClass={!if(actions.(actionScope).superClass)!actions.(actionScope).superClass}<else>Antlr.Runtime.Tree.</!
if(filterMode)!if(buildAST)!TreeRewriter<else>TreeFilter<endif><else>TreeParser</endif></endif>,</!
members={!actions.treeparser.members}>}) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
partial void EnterRule_<ruleName>_fragment();
partial void LeaveRule_<ruleName>_fragment();

// $ANTLR start <ruleName>
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void
<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
    <ruleLabelDefs(...)>
    EnterRule_<ruleName>_fragment();
    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
    <block>
    }
    finally
    {
    TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
    LeaveRule_<ruleName>_fragment();
    }
    }
// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
@if(synpreds)
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;
    #@start()#
    try { DebugBeginBacktrack(state.backtracking);
    int start = input.Mark();
    try
    {
    fragment();
    }
    catch (RecognitionException re )
    {
    System.Console.Error.WriteLine("impossible: "+re);
    }
success = !state.failed;
input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
<@stop()>
state.backtracking--;
state.failed=false;
return success;
}
@endregion Synpreds
@endif

ruleMemoization(name) ::= <<<
@if(memoize)
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
@endif
<<<

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<<
@if(backtracking)>if (state.failed) <returnFromRule()><endif>
<<<

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<<
@if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()>}<endif>
<<<

ruleWrapperMap ::= [
"bottomup":{<ruleWrapperBottomup()>},
"topdown":{<ruleWrapperTopdown()>},
default:""
]

ruleWrapperBottomup() ::= <<<
@if(TREE_PARSER && filterMode)>protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { <if(buildAST)>return <endif>bottomup(); }<endif>
<<<

ruleWrapperTopdown() ::= <<<
@if(TREE_PARSER && filterMode)>protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { <if(buildAST)>return <endif>topdown(); }<endif>
<<<
/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(ruleDescriptor.returnScope)>
  partial void EnterRule_<ruleName>();
  partial void LeaveRule_<ruleName>();
  <ruleWrapperMap.(ruleName)>
  // $ANTLR start "<ruleName>"
  // <fileName>:<description>
  [GrammarRule("<ruleName>")]<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)><returnType(ruleDescriptor)> <ruleName;
  format="id">(<ruleDescriptor.parameterScope:parameterScope()>)
  {
    EnterRule_<ruleName>();
    EnterRule("<ruleName>", <ruleDescriptor.index>);
    TraceIn("<ruleName>", <ruleDescriptor.index>);
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs(...)>
    <ruleDescriptor.actions.init>
    try { DebugEnterRule(GrammarFileName, "<ruleName>");
      DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
      <@preamble()> try {
        <ruleMemoization(name=ruleName)>
        <block>
        <(ruleDescriptor.actions.after):execAction()>
      }<if(exceptions)>
      <exceptions:{e|<catch(decl=e.decl,action=e.action)><
      }>
      <else>
      <if(!emptyRule)
      <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
      <else>
      catch (RecognitionException re) {
        ReportError(re);
        Recover(input,re);
        <@setErrorReturnValue()>
      }
      <endif>
    <endif>
  }<if(!emptyRule)
  <if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
  <else>
  catch (RecognitionException re) {
    ReportError(re);
    Recover(input,re);
    <@setErrorReturnValue()>
  }
  <endif>
  <endif>
  // $ANTLR end "<ruleName>"
finally {
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    LeaveRule_<ruleName>();
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
} DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><
} // $ANTLR end "<ruleName>"  

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
    <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
        null="private"> <else>internal<endif>
>>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
    <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
        null="private"> <else>public<endif>
>>&

catch(decl,action) ::= <<
    catch (<e.decl>)
    {
        <e.action>
    }
  
>>&

ruleDeclarations() ::= <<
    <if(ruleDescriptor.hasMultipleReturnValues)>
    <returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>(<if(ruleDescriptor.returnScope.attributes)>this<endif>);
    <elseif(ruleDescriptor.returnScope)>
        <ruleDescriptor.returnScope.attributes:{ a |
            <a.type> <a.name; format="id"> = <if(a.initValue)>a.initValue<else>initValue(a.type)<endif>;
        }>
    <endif>
    <if(memoize)>
    
>>&
int <ruleDescriptor.name>_StartIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it|<it>_stack.Push(new <it>_scope(this));<it>_scopeInit(<it>_stack.Peek());}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_stack.Push(new <it.name>_scope(this));<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels>
:[{it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n">
<ruleDescriptor.tokenListLabels
:[{it|List\<<labelType>\> list_<it.label.text> = null;}; separator="\n">
<ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels>
:[{it|List\<<ASTLabelType>\> list_<it.label.text> = null;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
:[{it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n">
<ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
:[{it|List\<<int\> list_<it.label.text> = null;}; separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.charListLabels:
list_<it.label.text> = null;}; separator="\n">
>>
returnFromRule() ::= <%
  return
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <! This comment is a hack to make sure the following
  single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
  <else>
  <!!> retval
  <endif>
  <endif>
  <endif>
  : %>

ruleCleanUp() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <if(!TREE_PARSER)>
  retval.Stop = (<labelType>input.LT(-1));
  <endif>
  <endif>
  >>

memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
  if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
  <endif>
  <endif>
  >>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

  partial void EnterRule_<ruleName>();
  partial void LeaveRule_<ruleName>();

  // $ANTLR start "<ruleName>"
  \[GrammarRule("<ruleName>")]  
  <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void 
  m_<ruleName>({ruleDescriptor.parameterScope:parameterScope()}) 
  { 
    EnterRule_<ruleName>();
    EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
:block>
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
:block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule._<ruleName>();
<ruleScopeCleanUp()>
<memoize()>
}

// $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule
 *  that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
 <block><\n>
}
>>

// SUBRULES
/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); } 
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++; 
}
loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)+ block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
@preloop() try { DebugEnterSubRule(<decisionNumber>); while (true) {
  int alt<decisionNumber>=<maxAlt>;
  @predecision() try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>); 
  @postdecision() switch ( alt<decisionNumber> ) {
    <alts:{a|<altSwitchCase(i,a)>}> 
    default: goto loop<decisionNumber>;
  }
  }
loop<decisionNumber>:
  ;
  @postloop() finally { DebugExitSubRule(<decisionNumber>); }
}@postloop() finally { DebugExitDecision(<decisionNumber>); }
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
case <altNum>: <@prealt()> DebugEnterAlt(<altNum>); <alt> break;<ln>
}}
/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
 |
<@declarations()
<elements:element()>
<rew>
<@cleanup()>
|
>>

/** What to emit when there is no rewrite. For auto build * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S
/** Dump the elements one per line */
element(it) ::= <%
<@prematch()>
DebugLocation(<it.line>, <it.pos>);<\n>
<it.el><\n>
%
*/

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)><label>=(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

listLabel(label,elem) ::= <<
#error The listLabel template should not be used with this target.<\n>
>>

listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List<<elemType; null={<labelType}>;}\ vap();
list_<label>.Add(<elem>);<\n>
>>
/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  </if>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  </if>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode=",terminalOptions={}) ::= <<
  <if(label)>
  <matchSetLabel()>
  <endif>
  if (<s>)
  {
    input.Consume();
    <postmatchCode>
    <if(!LEXER)>state.errorRecovery=false;</if><if(backtracking)>state.failed=false;</if>
  }
  else
  {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    DebugRecognitionException(mse);
    <@mismatchedSetException()>
    <if(LEXER)>Recover(mse);
    throw mse;
    <else>
    throw mse;
    <! use following code to make it recover inline; remove throw mse; recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
    !>
  }
  <endif>
} <\n>

matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <<
  <if(label)>
  <matchSetLabel()>
  \n>
<endif>
input.Consume();
<if(postmatchCode)>
<postmatchCode>
<endif>
<if(!LEXER)>state.errorRecovery=false;</if(bitracking)>state.failed=false;</if>

matchSetLabel() ::= <%
<if(LexER)>
<label>= input.LA(1);
<else>
<label>=(<labelType>)input.LT(1);
<endif>
%

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<int <label>Start = CharIndex;<
Match(<string>); <checkRuleBacktrackFailure()><
<int <label>StartLine<elementIndex> = Line;<
<int <label>StartCharPos<elementIndex> = CharPositionInLine;<
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<
<label>.Line = <label>StartLine<elementIndex>;<
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><
<endif>
%

wildcard(token,label,elementIndex,terminalOptions=[]) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions=[]) ::= <<
<wildcard(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
/** Match . wildcard in lexer */

wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)> <listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
  <if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name; format="id">(<args; separator=", ");
  PopFollow();
  <checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)> <listLabelElem(elem=label,elemType={<ASTLabelType>},...)
>>

/** A lexer rule reference.
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <%
  <if(label)>
  int <label>Start<elementIndex> = CharIndex;<\n
int <label>StartLine<elementIndex> = Line;<\n
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ");
  <checkRuleBacktrackFailure()><\n
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)> >>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;<
int <label>StartLine<elementIndex> = Line;<
int <label>StartCharPos<elementIndex> = CharPositionInLine;<
Match(EOF); <checkRuleBacktrackFailure()><
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>, CharIndex-1);<
<label>.Line = <label>StartLine<elementIndex>;<
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;</
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg>()" recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg() > \< opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenTypes.Down)
{
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
(children:element())

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/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>))
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

//  F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<
<edges; separator="\nelse ">
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
daflLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_k = input.LA(<k>);
    <edges; separator="\n" else >>
    if(eotPredictsAlt)
    
    alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
    <else>
    
    alt<decisionNumber> = <eotPredictsAlt>;
    </else>
    <\n>
    <endif>
    <endif>
>>

/** An accept state indicates a unique alternative has been predicted */
daflAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
daflEdge(labelExpr, targetState, predicates) ::= <<
    if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
    
    <targetState>
    
    </endif>
    >>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
daflStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch (input.LA(<k>))
    
    <edges; separator="\n"> default:
    <if(eotPredictsAlt)>
    
    <endif>

alt<decisionNumber>=<eotPredictsAlt>;
break;<ln>
<else>
{
    <ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
}
<endif>
}<ln>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
}<ln>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    <if(eotPredictsAlt)
    default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<ln>
    <endif>
}<ln>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it|case <it>:}; separator="\n">
{
    <targetState>
}
break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap=""+
	"">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap=""+
	"">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap=""+
	"">";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap=""+
	"">";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap=""+
	"">";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap=""+
	"">";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition: \s\s; wrap=""+
	\">"}; separator="\n"
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i < numStates; i++)
    {
        DFA<dfa.decisionNumber>_transition[i] =
        DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer,
SpecialStateTransitionHandler specialStateTransition)
    : base(specialStateTransition)
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}

<if(dfa.specialStateSTs)>
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws
NoViableAltException!>
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
<if(PARSER)>
ITokenStream input = (ITokenStream)_input;
<endif>
<if(TREE_PARSER)>
ITreeNodeStream input = (ITreeNodeStream)_input;
<endif>
int _s = s;
s = -1;
<! pull these outside the switch cases to save space on locals !>
int LA<dfa.decisionNumber>_1 = input.LA(1);
int index<dfa.decisionNumber>_1 = input.Index;
switch (_s)
{
<dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">
default:
    break;
}
if (s >= 0)
    return s;

<if(backtracking)>
if (state.backtracking > 0) {state.failed=true; return -1;}
<endif>
NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
dfa.Error(nvae);
throw nvae;
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    {
<if(semPredState)>
        <! get next lookahead symbol to test edges, then rewind !>
        input.Rewind();
<endif>
        <edges; separator="nelse ">
<if(semPredState)>
            <! return input cursor to state before we rewound !>
            input.Seek(index<decisionNumber>_1);
<endif>
        break;
    }
}
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>) {s = <targetStateNumber>;}
>>

/** An edge pointing at end-of-token; essentially matches any char; * always jump to the target. */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// DFA EXPRESSIONS
andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred,description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<k>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable * somewhere. Must ask for the lookahead directly. */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<k><ge()><lower> && LA<decisionNumber>_<k><le()><upper>)
%
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= 
"(input.LA(<k>)<ge()><lower> && input.LA(<k>)<le()><upper>)"

le() ::= "\="
ge() ::= ">="
setTest(ranges) ::= <<
// ATTRIBUTES

attributeScope(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
<scope.attributes:{it|public <it.decl>;}; separator="\n">
public <scope.name>_scope(<grammar.recognizerName> grammar) { OnCreated(grammar); }
partial void OnCreated(<grammar.recognizerName> grammar);
}</if>
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
<scope.actions.scopeinit>
}</if>
<else>
partial void <scope.name>_scopeInit( <scope.name>_scope scope );
<endif>
<if(scope.actions.scopeafter)>
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
<scope.actions.scopeafter>
}</if>
<else>
partial void <scope.name>_scopeAfter( <scope.name>_scope scope );
<endif>
protected readonly ListStack<<scope.name>_scope> <scope.name>_stack = new
ListStack<<scope.name>_scope>();
<endif>
<endif>
>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

eruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName(it) ::= "<it.name>_return"

returnType(ruleDescriptor) ::= <%
// Generate the C# type associated with a single or multiple return
// values.
*/
ruleLabelType(referencedRule) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
    <ruleReturnBaseType()>
  <elseif(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnType>
  <else>
    void
  <endif>
%>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
  default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
  <ruleLabelType(label.referencedRule)> <label.label.text> = <initValue(ruleLabelType(label.referencedRule))>; %>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
  <if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
    <returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
    <ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
  </if>
%>
ruleReturnBaseType() ::= <%
@if(TREE_PARSER)>Tree<else>Parser@endif>RuleReturnScope\<<labelType>>
%

@returnScope.ruleReturnMembers() ::= <<
public <ruleDescriptor:returnStructName()>\(<grammar.recognizerName> grammar\) \{OnCreated(\grammar);\}
partial void OnCreated\(<grammar.recognizerName> grammar\);
>>

parameterScope(scope) ::= <<
@scope.attributes:{it|<it.decl>}; separator=" ", ">
>>

parameterAttributeRef(attr) ::= <<
@attr.name; format="id">
>>

parameterSetAttributeRef(attr,expr) ::= <<
@attr.name; format="id">=<expr>;
>>

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
@if(negIndex)>
@scope>_stack[@scope>_stack.Count - @negIndex - 1].@attr.name; format="id"
@else>
@if(index)>
@scope>_stack[@index].@attr.name; format="id"
@else>
@scope>_stack.Peek().@attr.name; format="id"
@endif>
@endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
@if(negIndex)>
@scope>_stack[@scope>_stack.Count - @negIndex - 1].@attr.name; format="id">= @expr;
@else>
@if(index)>
@scope>_stack[@index].@attr.name; format="id">= @expr;
@else>
@scope>_stack.Peek().@attr.name; format="id">= @expr;
@endif>
%>
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.Count>0 && $function::name.Equals("foo")}? */

isolatedDynamicScopeRef(scope) ::= ":<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name; format="id">:<initValue(attr.type)>)
<else>
<scope>
<endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id">;
<else>
<attr.name; format="id">;
<endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<expr>;
<endif>
%

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID [$ids] or e+=expr [$e] */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:default(string))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?((<labelType>)<scope>.Start):default(<labelType>))"

ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?((<labelType>)<scope>.Stop):default(<labelType>))"

ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?((<ASTLabelType>)<scope>.Tree):default(<ASTLabelType>))"

ruleLabelPropertyRef_text(scope,attr) ::= <%
    <if(TREE_PARSER)>
        (<scope>!=null?input.TokenStream.ToString(
            input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
            input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string))
    <else>
    <endif>
    %>

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.Template:null)"

lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

  // Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <%
  <if(TREE_PARSER)>
  input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start))
  <else>
  input.ToString(retval.Start,input.LT(-1))
  <endif>
%
rulePropertyRef_st(scope,attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.Template =<expr>;"

/** How to execute an action (only when not backtracking) */
exeAction(action) ::= <%
  <if(backtracking)>
  if (<actions.(actionScope).synpredgate>)
  {<
    <@indentedAction()><
  }
  <else>
  <action>
  <endif>
%

@exeAction.indentedAction() ::= <<
  <action>
>>

/** How to always execute an action even when backtracking */
exeForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{it|<it>UL};separator","}));
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

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*/

/** Templates for building ASTs during tree parsing.
 * 
 * Deal with many combinations. Dimensions are:
 *  * Auto build or rewrite
 *  * no label, label, list label (label/no-label handled together)
 *  * child, root
 */
* token, set, rule, wildcard
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <<actions.(actionScope).synpredgate>>:
   <block>
<else>
   <block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_first_0 = None
_last = None
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking(
<if(rewriteMode)>
retval.tree = _first_0
if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
   retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   _last = self.input.LT(1)
   _save_last_<treeLevel> = _last
   _first_<treeLevel> = None
   <if(!rewriteMode)>
   root_<treeLevel> = self._adaptor.nil()
<endif>
   <root:element()>
   <if(rewriteMode)>
   >>
if _first_ <enclosingTreeLevel> is None:
   _first_ <enclosingTreeLevel> = <root.el.label>.tree

if _first_ <enclosingTreeLevel> is None:
   _first_ <enclosingTreeLevel> = <root.el.label>

if nullableChildList:
   if self.input.LA(1) == DOWN:
      self.match(self.input, DOWN, None)
      <children:element()>
      self.match(self.input, UP, None)
   else:
      self.match(self.input, DOWN, None)
      <children:element()>
      self.match(self.input, UP, None)

if !rewriteMode:
   self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)
   _last = _save_last_<treeLevel>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
   _last = self.input.LT(1)
   <super.tokenRef(...)>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
   _last = self.input.LT(1)
   <super.tokenRef(...)>
   <if(!rewriteMode)>
   <finishedBacktracking({
   <if(terminalOptions.node)>
   <label>_tree = <terminalOptions.node>(<label>)
   <else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>

self._adaptor.addChild(root_<treeLevel>, <label>_tree)
}
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
  _first_<treeLevel> = <label>
})
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions=[]) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions=[]) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions=[]) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions=[]) ::= <<
_last = self.input.LT(1)
<super.wildcard(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<label>_tree = self._adaptor.dupTree(<label>)
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<endif>
}, ...)>}

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)> 
<noRewrite(...)><! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.matchSet(...)> 
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
    _last = self.input.LT(1)
    <super.ruleRef(...)>
    <finishedBacktracking({
        <if(!rewriteMode)>
            self._adaptor.addChild(root_<treeLevel>, <label>.tree)
        <else> <! rewrite mode !>
            if _first_<treeLevel> is None:
                _first_<treeLevel> = <label>.tree
            
        <endif>
    })>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
    <ruleRef(...)>
    <listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
    _last = self.input.LT(1)
    <super.ruleRef(...)>
    <if(!rewriteMode)>
        <finishedBacktracking({
            root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
        })>
    <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
    <ruleRefRuleRoot(...)>
    <listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule, label, elementIndex, args, scope) ::= <<
    _last = self.input.LT(1)
    <super.ruleRefTrack(...)>
>>
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to *
* change nextToken to nextNode. */
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking(
retval.tree = self._adaptor.rulePostProcessing(root_0)
})
<endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
import stringtemplate3
>>

/**< Add this to each rule's return value struct */
@returnScope.ruleReturnInit() ::= <<
self.st = None
>>

@returnScope.ruleReturnMembers() ::= <<
def getTemplate(self):
    return self.st
def toString(self):
    if self.st is not None:
        return self.st.toString()
    return None
__str__ = toString
>>
```java
@genericParser.init() ::= <<
  @super.init()
  self.templateLib = stringtemplate3.StringTemplateGroup(
    '<name>Templates', lexer='angle-bracket'
  )
>>

@genericParser.members() ::= <<
  @super.members()
  def setTemplateLib(self, templateLib):
    self.templateLib = templateLib

  def getTemplateLib(self):
    return self.templateLib
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
  # TEMPLATE REWRITE
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <else>
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>

  <replaceTextInLine() ::= <<
    <if(TREE_PARSER)>
    self.input.getTokenStream().replace(
      self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
      self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
      retval.st
    )
    <else>
    self.input.replace(
```

```plaintext
rewriteTemplateAltFirst(alt) ::= <<
  <if(alt.pred)>
    # <alt.description>
    retval.st = <alt.alt>
  <\n>
  <else>
    # <alt.description>
    retval.st = <alt.alt>
  <\n>
  <endif>
>>

rewriteTemplateAlt(alt) ::= <<
  <if(alt.pred)>
    # <alt.description>
    retval.st = <alt.alt>
  <\n>
  <else>
    # <alt.description>
    retval.st = <alt.alt>
  <\n>
  <endif>
>>

rewriteEmptyTemplate(alts) ::= <<
  None
>>

/** Invoke a template with a set of attribute name/value pairs.
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name, args) ::= <<%
  self.templateLib.getInstanceOf("<name>" <if(args)> attributes={ <args:a | "a.name": <a.value> ; separator=", " ; "> } <endif> )
%>

/** expr is a string expression that says what template to load */
```
**Invoke an inline template with a set of attribute name/value pairs */

```python
rewriteInlineTemplate(args, template) ::= <%
    stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args)>, attributes={<args:{a | "<a.name>": <a.value>}; separator=",">}<endif>)
%>
```

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */

```python
actionSetAttribute(st,attrName,expr) ::= <<
    (<st>)["<attrName>"] = <expr>
>>
```

/** Translate %{stringExpr} */

```python
actionStringConstructor(stringExpr) ::= <<
    stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>
```

---

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*/

@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<
><endif>
>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();

public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>}

public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
@Override
public <ASTLabelType> getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;
>>
ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<if(!ruleDescriptor.isSynPred)>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<if(ruleDescriptor.supportsLabelOptimization)>
<ruleDescriptor.allTokenRefsInRewrites
:<it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInRewrites
:<it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
<else>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
:<it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
:<it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
<endif>
<endif>
>>

/** When doing auto AST construction, we must define some variables; */
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(rewriteMode && ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.nil();\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids */and*
* to the tracking list stream_ID for use in the rewrite.

*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label, ...)> >>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label, ...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(label, {<label>.getTree()})>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(label, {<label>.getTree()})>
>>

// Rewrite

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator="", ">
// token labels: <referencedTokenLabels; separator="", ">
// rule labels: <referencedRuleLabels; separator="", ">
// token list labels: <referencedTokenListLabels; separator="", ">
// rule list labels: <referencedRuleListLabels; separator="", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="", ">
<if(backtracking)>

if ( <actions.(actionScope).synpredgate> ) {

<endif>

<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>

<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),
retval.tree);
<endif>

<endif>

<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>

<prevRuleRootRef()>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<endif>

<endif>

<if(backtracking)>

}
<endif>

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels

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/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
 rewriteOptionalBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
        <<
            // <fileName>:<description>
            if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="||"> ) { 
                <alt>
            } } 
            <referencedElementsDeep:{el | stream_<el>.reset();\n}> 
        >>

rewriteClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
        <<
            // <fileName>:<description>
            if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="||"> ) { 
                <alt>
            } } 
            <referencedElementsDeep:{el | stream_<el>.reset();\n}> 
        >

: {it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>","<it>"),}; separator="\n"
>
<referencedTokenListLabels
: {it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);}; separator="\n"
>
<referencedWildcardLabels
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>"),<it>);}; separator="\n"
>
<referencedWildcardListLabels
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>);}; separator="\n"
>
<referencedRuleLabels
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>"),<it>!=null?<it>.getTree():null);}; separator="\n"
>
<referencedRuleListLabels
: {it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>);}; separator="\n"
>
description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
<a>
}<referencedElements:{el | stream_<el>.reset();\n}> >>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
<a>
}<referencedElements:{el | stream_<el>.reset();\n}> >>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
<a.alt>
}<a.alt>
<else>
{
<a.alt>
}<a.alt>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
```plaintext
rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  <@pregen()>
  <e.el>
>>

/** Gen ID or ID[<arg>] */
rewriteTokenRef(token,elementIndex,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>)
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode())
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode())
>>

/** Gen ^(<label> ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>)
>>

/** Gen ^(<label> ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[<arg>] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
  root_<treeLevel>)
>>

rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,args,terminalOptions)>)
>>

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(token,args,terminalOptions)>,
  root_<treeLevel>)
>>

/** plain -> {foo} action */
```
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>., stream_<label>._nextTree());

createImaginaryNode(tokenType, args, terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  <! new MethodNode(IDLabel, args) !>
  new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
  <else>
  (<ASTLabelType>)adaptor.create(<tokenType>, <args; separator=", ">"<tokenType>"<endif>)
  <endif>
%

createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  new <terminalOptions.node>(stream_<token>._nextToken()<if(args)>, <args; separator=", "><endif>)
  <else>
  <if(args)>
  <! must create new node from old !>
  adaptor.create(<token>, <args; separator=", ">)
  <else>
  stream_<token>._nextNode()
  <endif>
  <endif>
%

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/AST.stg

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/ObjCTarget.java

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*/

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/gunit/gUnitExecutor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/Interp.java
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objcTypeInitMap ::= [
"int"       : "0",     // Integers start out being 0
"long"      : "0",     // Longs start out being 0
"float"     : "0.0",   // Floats start out being 0
]
"double" : "0.0",  // Doubles start out being 0
"BOOL" : "NO",   // Booleans start out being Antlr ObjC for false
"byte" : "0",    // Bytes start out being 0
"short" : "0",   // Shorts start out being 0
"char" : "0",    // Chars start out being 0
"id" : "nil",    // ids start out being nil
default : "nil"   // anything other than an atomic type

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
  "True":"true",
  "False":"false",
  "true":"YES",
  "false":"NO",
  default:"NO"
]

className() ::= "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>"

leadIn(type) ::= <<
/** 
* This <type> file was generated by $ANTLR version <ANTLRVersion>
*
* - From the grammar source file : <fileName>
* - On : <generatedTimestamp>
*<if(LEXER)>
* - for the lexer : <name>Lexer
*<endif>
*<if(PARSER)>
* - for the parser : <name>Parser
*<endif>
*<if(TREE_PARSER)>
* - for the tree parser : <name>TreeParser
*<endif>
* Editing it, at least manually, is not wise.
* ObjC language generator and runtime by Alan Condit, acondit@hereisanat|ipns|dotgoeshere|com.
* *
>>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::=
<<
<leadIn("OBJC source")>
*/
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<! <if(actions.(actionScope).header)>
/* =---------------------------------------------------------------
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.
* =---------------------------------------------------------------
*/
<endif> !>

/* -----------------------------------------
* Include the ANTLR3 generated header file.
*/
#import "<name>!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>.h"
/* ----------------------------------------- */
<docComment>

/* String literals used by <name> that we must do things like MATCHS() with. */
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/
<literals:{it | static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endif>

/* ============================================================================= */
/* ============================================================================= */
* Start of recognizer
*/
<recognizer>

>>
headerFileExtension() ::= ".h"

headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
trace,
scopes,
superClass,
literals
)
::=

<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

/*@imports*/
<actions.(actionScope).preincludes>
/* *
* Standard antlr OBJC runtime definitions
*/
#import \<Cocoa/Cocoa.h>
#import \<ANTLR/ANTLR.h>
/* End of standard antlr3 runtime definitions */
/* */
<actions.(actionScope).includes>
@end>

@if(LEXER)>
<lexerHeaderFile(...)>  
@end>
@if(PARSER)>
<parserHeaderFile(...)>  
@end>
@if(TREE_PARSER)>
<treeParserHeaderFile(...)>  
@end>
<docComment>
>>&nbsp;

lexerHeaderFile( LEXER,  
PARSER,  
TREE_PARSER,  
actionScope,  
actions,  
docComment,  
recognizer,  
name,  
tokens,  
tokenNames,  
rules,  
cyclicDFAs,  
bitsets,  
buildTemplate,  
profile,  

backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass="Lexer"
) ::= 
<<

<if(actions.(actionScope).header)>
/* ==---------------------------------------------------------------------
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.
*/
<endif>

/* Start cyclicDFAInterface */
<cyclicDFAs:cyclicDFAInterface()>

#pragma mark Rule return scopes Interface start
<rules:{rule |
    <rule.ruleDescriptor:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}}>}
#pragma mark Rule return scopes Interface end
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#endif
EOF
#undef EOF
@end
#include "<it.name> <it.type>";
/tokendef "<it.name> <it.type>";
separator="\n"
#endif
/* ObjC start of actions.lexer.memVars */
<actions.lexer.memVars>
/* ObjC end of actions.lexer.memVars */
+(void)initialize;
+(<className()> *)new<className()>WithCharStream:(id<CharStream>)anInput;
/* ObjC start actions.lexer.methodsDecl */
<actions.lexer.methodsDecl>
/* ObjC end actions.lexer.methodsDecl */
<rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>)
@if(!rule.ruleDescriptor.isSynPred)>m<rule.ruleName><else><rule.ruleName>_fragment<endif>
@if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:parameterScope()><endif>; 
separater="n">"n>
@end /* end of <className()> interface */
>>

headerReturnScope(ruleDescriptor) ::= "returnScopeInterface(...)"
headerReturnType(ruleDescriptor) ::= <<
@if(LEXER)>
@if(!rule.ruleDescriptor.isSynPred)
void
@else
<ruleDescriptor:returnType()>
@endif
@else
<ruleDescriptor:returnType()>
@endif
>>

// Produce the lexer output
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    filterMode,
    labelType="CommonToken",
    superClass="Lexer"
) ::= <<
<cyclicDFAs:cyclicDFA()>

/** As per Terence: No returns for lexer rules! */
<!
#pragma mark Rule return scopes start
<rules:{rule | <rule.ruleDescriptor:{ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor:returnScope)>}> }>
]>
#pragma mark Rule return scopes end
@
@implementation <grammar.recognizerName> // line 330

+ (void) initialize
{

[BaseRecognizer setGrammarFile: @"<filename>"];

+ (NSString *) tokenNameForType:(NSInteger)aTokenType
{  
  return [[self getTokenNames] objectAtIndex:aTokenType];
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>WithCharStream:(id<CharStream>)anInput
{  
  return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}

- (id) initWithCharStream:(id<CharStream>)anInput
{  
  self = [super initWithCharStream:anInput State:[RecognizerSharedState
ewRecognizerSharedStateWithRuleLen:<numRules>+1]];  
  if ( self != nil ) {
    <if(memoize)>
      if ( state.ruleMemo == nil ) {
        state.ruleMemo = [[RuleStack newRuleStackWithSize:<numRules>+1] retain];
      }  
      if ( [state.ruleMemo count] == 0 ) {
        // initialize the memoization cache - the indices are 1-based in the runtime code!
        <! [state.ruleMemo addObject:NSNull null]; /* dummy entry to ensure 1-basedness. */ >
        for (NSInteger i = 0; i < <numRules>; i++) {
          [state.ruleMemo addObject:[HashRule newHashRuleWithLen:17]];  
        }
      }  
    <endif>
    <synpreds:{pred | <lexerSynpred(name=pred)>}; separator="\n">  
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self}; separator="\n">  
    <actions.lexer.init>
    return self;
  }

- (void) dealloc
{  
  <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">  
  <actions.lexer.dealloc>
  [super dealloc];  
}

/* ObjC Start of actions.lexer.methods */
<actions.lexer.methods>
/* ObjC end of actions.lexer.methods */
/* ObjC start methods() */
<@methods()>
/* ObjC end methods() */

@if(actions.lexer.reset) - (void) reset
{
    <actions.lexer.reset>
    [super reset];
}
@end

@if(filterMode) <filteringNextToken()> <endif>

/* Start of Rules */
<rules; separator=":n"> @end /* end of <grammar.recognizerName> implementation line 397 */

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 *  for matches. No error can be generated upon error; just rewind, consume
 *  a token and then try again. backtracking needs to be set as well.
 *  Make rule memoization happen only at levels above 1 as we start mTokens
 *  at backtracking==1.
 */
filteringNextToken() ::= <<- (id<Token>) nextToken
{
    while (YES) {
        if ( [input LA:1] == CharStreamEOF ) {
            return [<labelType> eofToken];
        }
        state.token = nil;
        state.channel = TokenChannelDefault;
        state.tokenStartCharIndex = input.index;
        state.tokenStartCharPositionInLine = input.charPositionInLine;
        state.tokenStartLine = input.line;
        state.text = nil;
        @try {
            NSInteger m = [input mark];
            state.backtracking = 1; /* means we won't throw slow exception */
            state.failed = NO;
            [self mTokens];
            state.backtracking = 0;
            /* mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. */
        } @catch(error) {
            /* handle errors here */
        } finally {
            state.backtracking = 0;
            state.failed = NO;
        }
    }
} return state.token;
if ( state.failed ) {
    [input rewind:m];
    [input consume]; /* advance one char and try again */
} else {
    [self emit];
    return state.token;
}

@catch (RecognitionException *re) {
    // shouldn't happen in backtracking mode, but...
    [self reportError:re];
    [self recover:re];
}

- (void)memoize:(id<IntStream>)anInput
    RuleIndex:(NSInteger)ruleIndex
    StartIndex:(NSInteger)ruleStartIndex
{
    if ( state.backtracking > 1 ) [super memoize:anInput RuleIndex:ruleIndex StartIndex:ruleStartIndex];
}

- (BOOL)alreadyParsedRule:(id<IntStream>)anInput RuleIndex:(NSInteger)ruleIndex
{
    if ( state.backtracking > 1 ) return [super alreadyParsedRule:anInput RuleIndex:ruleIndex];
    return NO;
}

>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

parserHeaderFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="Parser"
) ::= <<
/* parserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TokenStream>"...,)>>
>>

treeParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="TreeParser"
) ::= <<
/* treeParserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TreeNodeStream>"...,)>>
>>
genericParserHeaderFile( LEXER, 
PARSER, 
TREE_PARSER, 
actionScope, 
actions, 
docComment, 
recognizer, 
name, 
tokens, 
tokenNames, 
rules, 
cyclicDFAs, 
bitsets, 
buildTemplate, 
profile, 
backtracking, 
synpreds, 
memoize, 
umRules, 
fileName, 
ANTLRVersion, 
generatedTimestamp, 
trace, 
scopes, 
superClass, 
literals, 
inputStreamType 
) ::= 

<<
<if(actions.(actionScope).header)>
/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
<endif>

#ifndef ANTLR3TokenTypeAlreadyDefined
#define ANTLR3TokenTypeAlreadyDefined

typedef enum {
   ANTLR_EOF = -1,
   INVALID,
   EOR,
   DOWN,
   UP,
   MIN


Opening a new section.

Compiler directive pragmas for token definitions.

Dynamic scopes and rules.

Cyclic DFAs and synpreds.

Interface declaration.

Actions and properties methods.

Object-C interface methods.

End of the code snippet.

Open Source Used In Crosswork Common EMS Services 4.0.0 8172
/* ObjC end of actions.(actionScope).methodsDecl */

/* ObjC start of methodsDecl */
<@methodsDecl()>
/* ObjC end of methodsDecl */

<rules:{rule | 
  - (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>){if(!rule.ruleDescriptor.isSynPred}<rule.ruleName><else><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope: parameterScope()><endif>; }; separator="\n">\n>

@end /* end of <className()> interface */<\n>

>>

parser( grammar, 
  name, 
  scopes, 
  tokens, 
  tokenNames, 
  rules, 
  numRules, 
  bitsets, 
  ASTLabelType="CommonTree", 
  superClass="Parser", 
  labelType="CommonToken", 
  members={<actions.parser.members>} ) ::= <<
  <genericParser(inputStreamType="id\TokenStream", rewriteElementType="Token", ...)> 
>>

/** How to generate a tree parser; same as parser except the input 
* stream is a different type.
*/

treeParser( grammar, 
  name, 
  scopes, 
  tokens, 
  tokenNames, 
  globalAction, 
  rules, 
  numRules, 
  bitsets, 
  filterMode, 
  labelType={<ASTLabelType>}, 
  ASTLabelType="CommonTree", 
  superClass={if(filterMode)<if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>}, 
  }}
}}
members={<actions.treeparser.members>}
)

<genericParser(inputStreamType="id\<TreeNodeStream>", rewriteElementType="Node", ...)> >>

/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    cyclicDFAs,
    bitsets,
    labelType,
    ASTLabelType,
    superClass,
    members,
    filterMode,
    rewriteElementType,
    inputStreamType
) ::=<

<cyclicDFAs:cyclicDFA()>

#pragma mark Bitsets
<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)}>}

#pragma mark Dynamic Global globalAttributeScopeImplementation
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeImplementation(scope=it)><endif>}>}

#pragma mark Dynamic Rule Scopes ruleAttributeScopeImplementation
<rules:{rule |
    <rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeImplementation(scope=ruleDescriptor.ruleScope)>}>}>}

#pragma mark Rule Return Scopes returnScopeImplementation
<rules:{rule |
    <returnScopeImplementation(scope=ruleDescriptor.returnScope)>}>}

@implementation <grammar.recognizerName> // line 637

/* ObjC start of ruleAttributeScope */
#pragma mark Dynamic Rule Scopes ruleAttributeScope
<rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScope()>}> /* ObjC end of ruleAttributeScope */

#pragma mark global Attribute Scopes globalAttributeScope
/* ObjC start globalAttributeScope */
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}>
/* ObjC end globalAttributeScope */
/* ObjC start actions.(actionScope).synthesize */
<actions.(actionScope).synthesize>
/* ObjC start synthesize() */
<@synthesize()>

+ (void) initialize
{
    #pragma mark Bitsets
    <bitsets:{it | <bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)}>}
    [BaseRecognizer setTokenNames:[[AMutableArray arrayWithObjects:@"\<invalid>", @"\<EOR>",
        @"\<DOWN>\", @"\<UP>\", <tokenNames:{it | @<it>; separator="", wrap="\n \", nil} retain]];]
    <synpreds:{pred | <synpred(pred)>>}>
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>:(<inputStreamType>)aStream
{
    <if(PARSER)>
        return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
    <else>! TREE_PARSER !
        return [[<grammar.recognizerName> alloc] initWithStream:aStream];
    <endif>
}

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
    self = [super initWithTokenStream:aStream State:[[RecognizerSharedState
        newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];}
    if ( self != nil ) {
        <else>! TREE_PARSER !
        - (id) initWithStream:(<inputStreamType>)aStream
        {
            self = [super initWithStream:aStream State:[[RecognizerSharedState
                newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];}
            if ( self != nil ) {
                <! <parserCtorBody()> !>
                <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
                    newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">}
                <scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScopeInit(scope=it)<endif>}>}
                <rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit()>}>}
/* start of actions-actionScope-init */
<actions.(actionScope).init>
/* start of init */
<@init()>}
return self;
}

- (void) dealloc
{
    <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">  
    <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)<<endif> }}>
    <actions.(actionScope).dealloc>
    </@dealloc()>
    [super dealloc];
}

/* ObjC start actions.(actionScope).methods */
<actions.(actionScope).methods>
/* ObjC end actions.(actionScope).methods */
/* ObjC start methods() */
<@methods()>  
/* ObjC end methods() */
/* ObjC start rules */
<rules; separator="\n">  
/* ObjC end rules */

@end /* end of <grammar.recognizerName> implementation line 692 */

/parserCtorBody() ::= <<
@if(memoize)> /* parserCtorBody */
@if(grammar.grammarIsRoot)> 
state.ruleMemo = [[RuleStack newRuleStack:<numRules>+1] retain];<\n> <! index from 1..n !>
@end
</endif>
</grammar.delegators:
{/this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc..., just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>_fragment
- (void) <ruleName>_fragment
{
    <ruleLabelDefs>()
}
<if(trace)>
    [self traceIn:'"<ruleName>_fragment" Index:<ruleDescriptor.index>];
@endtry {
    <block>
}
@endfinally {
    [self traceOut:'"<ruleName>_fragment" Index:<ruleDescriptor.index>];
}
@endelse>
    <block>
@endendif>
} // $ANTLR end <ruleName>_fragment
>>

synpred(name) ::= <<
SEL <name>Selector = @selector(<name>_fragment);
<!/ $ANTLR start <name> - (BOOL) <name>
{
    state.backtracking++;  
    <@start()>  
    NSInteger start = [input mark];
    @try {
        [self <name>_fragment]; // can never throw exception  
    }
    @catch (RecognitionException *re) {  
        NSLog("impossible: %@", re.name);  
    }
    BOOL success = (state.failed == NO);
    [input rewind:start];
    <@stop()>  
    state.backtracking--;  
    state.failed=NO;  
    return success;  
} // $ANTLR end <name> <!/n> >
>>

lexerSynpred(name) ::= <<
<synpred(name)>  
>>

ruleMemoization(name) ::= <<
@if(memoize)
    if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
@endif>
>>
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if (backtracking)>if ( state.failed ) return <ruleReturnValue()>;<endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue()>; }<\n><endif>
>>
/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{
<if(trace)>[self traceIn:\@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
<if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1],
(state.failed==YES)?@"YES":@"NO", state.backtracking);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else><if(!emptyRule)><if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
@catch (RecognitionException *re) {
[self reportError:re];
[self recover:input Exception:re];
<@setErrorReturnValue()>
}<\n>
<endif><endif><endif>
@finally {
<if(trace)>[self traceOut:@"<ruleName>" Index:<ruleDescriptor.index>];<endif>

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<memoize()>
<ruleScopeCleanUp()>
</finally>
}
}@postamble()
return <ruleReturnValue()>
} /* SANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
  <finalBlock>
}
>>
catch(decl,action) ::= <<
@catch (<e.decl>) {
  <e.action>
}
>>

eRuleDeclarations() ::= <<
/* ruleDeclarations */
@if(ruleDescriptor.hasMultipleReturnValues)
<returnType()> retval = [<ruleDescriptor:returnStructName()> new<ruleDescriptor:returnStructName()>];
[retval setStart:[input LT:1]];
@endif
@if(memoize)
NSInteger <ruleDescriptor.name>_StartIndex = input.index;
@endif
>>

ruleScopeSetUp() ::= <<
/* ruleScopeSetUp */
<ruleDescriptor.useScopes:{it | [<it>_stack push:[<it>_Scope new<it>_Scope]]}; separator="n">
<ruleDescriptor.ruleScope:{it | [<it.name>_stack push:[<it.name>_Scope new<it.name>_Scope]]}; separator="n">
>>

ruleScopeCleanUp() ::= <<
/* ruleScopeCleanUp */
<ruleDescriptor.useScopes:{it | [<it>_stack pop]; separator="n"}>
<ruleDescriptor.ruleScope:{it | [<it.name>_stack pop]; separator="n"}>
>>
ruleLabelDefs() ::= <%
/* ruleLabelDefs entry */
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels, ruleDescriptor.wildcardTreeListLabels]
 : [it | <labelType> *<it.label.text> = nil;]; separator = "\n">
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels, ruleDescriptor.wildcardTreeListLabels]
 : [it | AMutableArray *list_<it.label.text> = nil;]; separator = "\n">
<ruleDescriptor.ruleLabelDefs(); separator = "\n">
<ruleDescriptor.ruleListLabels:{ll|ParserRuleReturnScope *<ll.label.text> = nil;}; separator = "\n">
%
>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 : [it | <labelType> *<it.label.text> = nil;]; separator = "\n">
> 
<ruleDescriptor.charLabels:{it | NSInteger <it.label.text>}; separator = "\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]: {it | AMutableArray *list_<it.label.text> = nil; }; separator = "\n">
>>
ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%
>
ruleCleanUp() ::= <<
/* token+rule list labels */
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]: [it | [list_<it.label.text> release];]; separator = "\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[retval setStop:[input LT:-1]];<\n>
<endif><endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) [self memoize:input RuleIndex:<ruleDescriptor.index>
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
// $ANTLR start "<ruleName>"
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
>>
}

if(nakedBlock) {
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>

<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
@endfinally 

@try {
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>

<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
@endfinally 

@endif
/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
    block</n>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description> // block
NSInteger alt<decisionNumber>=<maxAlt>;<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {<alts:{a | <altSwitchCase(i, a)>}>}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description> //ruleblock
NSInteger alt<decisionNumber>=<maxAlt>;<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {<alts:{a | <altSwitchCase(i, a)>}>}
>>
ruleBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
// <fileName>:<description> // ruleBlockSingleAlt
<decls>
}@prealt()  
<alts>
}@postalt()  
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
// <fileName>:<description> // blockSingleAlt
<decls>
}@prealt()  
<alts>
}@postalt()  
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description> // positiveClosureBlock
NSInteger cnt<decisionNumber> = 0;
<decls>
}@preloop()  
do {
INTEGER alt<decisionNumber> = <maxAlt>;
}@predecision()  
decision
}@postdecision()  
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i, a)>}>
default:
    if (cnt<decisionNumber> >= 1)
        goto loop<decisionNumber>;
}@ruleBacktrackFailure()  
EarlyExitException *eee =
    [EarlyExitException newException:input decisionNumber:<decisionNumber>];
}@EarlyExitException()  
@throw eee;
}
cnt<decisionNumber>++;
} while (YES);
loop<decisionNumber>: ;
}@postloop()  
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

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/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<decls>
<@preloop()>
do {
    NSInteger alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i, a)>}>
        default :
            goto loop<decisionNumber>;
    }
} while (YES);
loop<decisionNumber>:
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum, alt) ::= <<
    case <altNum> : ;
    <@prealt()>
    <alt>
    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description> // alt
    {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
>>
/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= << @prematch()><\n><e.el><\n> >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
@if(label)><label>=(<labelType> *)<endif>[self match:input TokenType:<token>
Follow:FOLLOW_<token>_in_<ruleName><elementIndex>]; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)> <listLabel(elem=label,...)> >>

listLabel(label,elem) ::= <<
if (list_<label> == nil) list_<label> = [[NSMutableArray arrayWithCapacity:5] retain];
[list_<label> addObject:<elem>];<\n> >>

/** match a character */
charRef(char,label) ::= <<
@if(label)>NSInteger <label> = [input LA:1];<\n><endif>
[self matchChar:<char>]; <checkRuleBacktrackFailure()><\n> >>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)>NSInteger <label> = [input LA:1];<\n><endif>
[self matchRangeFromChar:<a> to:<b>]; <checkRuleBacktrackFailure()><\n> >>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
@if(label)>
@if(LEXER) <label> = [input LA:1];<\n> <else>

}}

/** Dump the elements one per line */
element(e) ::= << @prematch()><\n><e.el><\n> >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
@if(label)><label>=(<labelType> *)<endif>[self match:input TokenType:<token>
Follow:FOLLOW_<token>_in_<ruleName><elementIndex>]; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)> <listLabel(elem=label,...)> >>

listLabel(label,elem) ::= <<
if (list_<label> == nil) list_<label> = [[NSMutableArray arrayWithCapacity:5] retain];
[list_<label> addObject:<elem>];<\n> >>

/** match a character */
charRef(char,label) ::= <<
@if(label)>NSInteger <label> = [input LA:1];<\n><endif>
[self matchChar:<char>]; <checkRuleBacktrackFailure()><\n> >>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)>NSInteger <label> = [input LA:1];<\n><endif>
[self matchRangeFromChar:<a> to:<b>]; <checkRuleBacktrackFailure()><\n> >>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
@if(label)>
@if(LEXER) <label> = [input LA:1];<\n> <else>

}}
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
@if(label)
NSInteger <label>Start = input.index;
[self matchString:<string>]; <checkRuleBacktrackFailure()>
NSInteger StartLine<elementIndex> = self.line;
NSInteger <label>StartCharPos<elementIndex> = self.charPositionInLine;
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault
Start:<label>Start Stop:input.index] retain];
[self setLine:<label>StartLine<elementIndex>];
[self setCharPositionInLine:<label>StartCharPos<elementIndex>];
@else
[self matchString:<string>]; <checkRuleBacktrackFailure()>
@end

>@mismatchedSetException()>
@if(LEXER)
@if(label)
mse.c = <label>;
@end
[self recover:mse];
@throw mse;
@else
@throw mse;
<! use following code to make it recover inline; remove throw mse;
[self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>]; !>
@end
\n>
>>
wildcard(token, label, elementIndex, terminalOptions) ::= <<
<if(label)>
<label> = (<labelType> *)[input LT:1];
<endif>
[self matchAny:input]; <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token, label, elementIndex, terminalOptions) ::= <<
<wildcard(...)
<listLabel(elem=label,...)
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
NSInteger <label> = [input LA:1];
<endif>
[self matchAny]; <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)
<listLabel(elem=label,...)
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The ‘rule’ argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
/* ruleRef */
[self pushFollow:FOLLOW_<rule.name>_<elementIndex>];
<if(label)><label> = <endif>[self <if(scope)><scope:delegateName()>.<endif><rule.name><if(args)>:<first(args)
<rest(args):[ a | arg<i>:<rest(args)>]; separator=" "><endif>[];</n>
[self popFollow];
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)
<listLabel(elem=label,...)
>>
/** A lexer rule reference. 
* 
* The 'rule' argument was the target rule name, but now 
* is type Rule, whose toString is same: the rule name. 
* Now though you can access full rule descriptor stuff. 
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
NSInteger <label>Start<elementIndex> = input.index;
[self m<rule.name><if(args)>:<args; separator=" ":><endif>]; <checkRuleBacktrackFailure()>>
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self <if(scope)><scope:delegateName()>.<endif>m<rule.name><if(args)>:<args; separator=" ":><endif>]; <checkRuleBacktrackFailure()>>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)> 
<listLabel(elem=label,...)> >>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
NSInteger <label>Start<elementIndex> = input.index;
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()>>
<labelType> <label> = [[<labelType> newToken:input Type:TokenTypeEOF Channel:TokenChannelDefault Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()>>
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=<$src>.<name>;"

/** match ^root children in tree parser */
tree(root, actions,AfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
@if(nullableChildList)
if ( [input LA:1] == DOWN ) {
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
@endif
>>

/**
 * Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    @throw [FailedPredicateException newException:@"<ruleName>" predicate:@"<description>" stream:input];
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_stateNumber = [input LA:<k>];\n<edges; separator="\nelse ">
else {
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>;
    </if>
    <else>
        <ruleBacktrackFailure()>
        NoViableAltException *nvae = [NoViableAltException newException:decisionNumber state:stateNumber stream:input];
        nvae.c = LA<decisionNumber>_stateNumber;
        [@noViableAltException()]
        @throw nvae;\n    </else>
}]
>>

/**
 * Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\n" else >>
/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for (\texttt{a})\textsuperscript{*} on the end of a rule
* anything other than \texttt{a} predicts exiting.
*/
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\n" else >>
if(eotPredictsAlt)
alt<decisionNumber>=<eotPredictsAlt>; /* if no edges, don't gen ELSE */
else {
    alt<decisionNumber> = <eotPredictsAlt>;
} \n
<endif><endif>
>>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"
/** A simple edge with an expression. If the expression is satisfied,
* enter to target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= "if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
<targetState>
}" \n}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
unichar charLA<decisionNumber> = [input LA:<k>];
switch (charLA<decisionNumber>) {
<edges; separator="\n" default: ;
<if(eotPredictsAlt)
alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber> stream:input];
    nvae.c = charLA<decisionNumber>;
    <@noViableAltException()>
    @throw nvae;<
    <endif>
} <\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) { // dfaOptionalBlockStateSwitch
    edges; separator="\n"}<\n
} <\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) { // dfaLoopbackStateSwitch
    edges; separator="\n"}<\n
@if(eotPredictsAlt)
default:
    alt<decisionNumber> = <eotPredictsAlt>;
    break;<\n
@endif>
} <\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it | case <it>: ;}; separator="\n"> 
    <targetState>
    
    break;
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 *  in the rule to predict an alt just like the fixed DFA case.
 *  The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict:input];
>>

/** Used in headerFile */
#pragma mark Cyclic DFA interface start DFA<dfa.decisionNumber>
@interface DFA<dfa.decisionNumber> : DFA {
    
    + (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)theRecognizer;
    - initWithRecognizer:(BaseRecognizer *)recognizer;

@end /* end of DFA<dfa.decisionNumber> interface */

#pragma mark Cyclic DFA interface end DFA<dfa.decisionNumber>

/** Used in lexer/parser implementation files */
/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= 

#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>
@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
    {<dfa.eot; wrap="\n   ", separator="\", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
    {<dfa.eof; wrap="\n   ", separator="\", null="-1">};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
    {<dfa.min; wrap="\n   ", separator="\", null="-1">};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
    {<dfa.max; wrap="\n   ", separator="\", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
    {<dfa.accept; wrap="\n   ", separator="\", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
    {<dfa.special; wrap="\n   ", separator="\", null="-1">};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty	    nil
<dfa.edgeTransitionClassMap.keys:{ table |
const static NSInteger dfa<dfa.decisionNumber>_T<i0>[] =
    {<table; separator="\n   ", wrap="\n   ", null="-1">}
}; null="}"

const static NSInteger *dfa<dfa.decisionNumber>_transition[] =

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+ (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)aRecognizer
{
    return [[[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer] retain];
}

- (id) initWithRecognizer:(BaseRecognizer *) theRecognizer
{
    self = [super initWithRecognizer:theRecognizer];
    if ( self != nil ) {
        decisionNumber = <dfa.decisionNumber>;
        eot = dfa<dfa.decisionNumber>_eot;
        eof = dfa<dfa.decisionNumber>_eof;
        min = dfa<dfa.decisionNumber>_min;
        max = dfa<dfa.decisionNumber>_max;
        accept = dfa<dfa.decisionNumber>_accept;
        special = dfa<dfa.decisionNumber>_special;
        transition = dfa<dfa.decisionNumber>_transition;
    }
    return self;
}

@if(dfa.specialStateSTs) /* start dfa.specialStateSTs */
- (NSInteger) specialStateTransition:(NSInteger)s Stream:(id<IntStream>)anInput
{
    @if(LEXER)
        id<IntStream> input = anInput;<
    @endif
    @if(PARSER)
        id<TokenStream> input = (id<TokenStream>)anInput;<
    @endif
    @if(TREE_PARSER)
        id<TreeNodeStream> input = (id<TreeNodeStream>)anInput;<
    @endif
    @switch (s) {
        @<dfa.specialStateSTs:{state |
            case <i0> : ;<! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n"
    }
    @if(backtracking)
        if ( [recognizer getBacktrackingLevel] > 0 ) { [recognizer setFailed:YES]; return -1; }<
    @endif
    NoViableAltException *nvae = [NoViableAltException newException:<dfa.decisionNumber> state:s
stream:recognizer.input;
    // nvae.c = s;
    /* [self error:nvae]; */ <! for debugger - do later !>
    @throw nvae;
} <\n>
/* end dfa.specialStateSTs */
@end

- (void) dealloc
{
    //free(transition);
    [super dealloc];
}

- (NSString *) description
{
    return @"<dfa.description>";
}

@end /* end DFA<dfa.decisionNumber> implementation */
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>
@end

>/** A state in a cyclic DFA; it's a special state and part of a big switch on*
 state.
*/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
    /* cyclicDFAState */
    NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
@if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
    NSInteger index<decisionNumber>_<stateNumber> = input.index;
    [input rewind];<\n>
@end
    s = -1;
    <edges; separator="\nelse ">
@if(semPredState) <! return input cursor to state before we rewound !>
    [input seek:index<decisionNumber>_<stateNumber>];<\n>
@end
    if ( s >= 0 )
        return s;
    break;

>/** Just like a fixed DFA edge, test the lookahead and indicate what*
 state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
/* cyclicDFAEdge */
if (<labelExpr><if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>; } <<
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>; <<
/* eotDFAEdge */
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(pred, {}>)"
evalPredicate(pred,description) ::= "(<pred>)"

/*
 * evalSynPredicate(pred,description) ::= "<pred>()"
 * synpreds are broken in cyclic DFA special states
 * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred method in
 * DFA
 */
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>_fragment]

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>] == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>)%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(([input LA:<k>] >=
<lower>) && ([input LA:<k>] <= <upper>))"
setTest(ranges) ::= <%
<ranges; separator="||">%

// ATTRIBUTES

memVars(scope) ::= <%
<scope.attributes:{a|<a.type> <a.name>;<\n>}; separator="\n">%>

properties(scope) ::= <%
<scope.attributes:{a|@property (assign, getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;<\n>}; separator="\n">%>

methodsDecl(scope) ::= <%
<scope.attributes:{a|-(<a.type>)get<a.name>;<\n>- (void)set<a.name>:(<a.type>)aVal;<\n>}; separator="\n">%>

synthesize(scope) ::= <%
<scope.attributes:{a|@synthesize <a.name>;}; separator="\n">%>

methods(scope) ::= <%
<scope.attributes:{a|
- (<a.type>)get<a.name> { return( <a.name> ); |\n
- (void)set<a.name>:(<a.type>)aVal { <a.name> = aVal; |\n
%>

globalAttributeScopeInterface(scope) ::= <%
/* globalAttributeScopeInterface */
@interface <scope.name>_Scope : SymbolsScope {<\n@if(scope.attributes) 
<memVars(scope)>
@endif
]<\n@if(scope.attributes) 
/* start of globalAttributeScopeInterface properties */
<properties(scope)>
/* End of globalAttributeScopeInterface properties */
@endif
+
+ (<scope.name>_Scope *)new<scope.name>_Scope;<\n- (id) init;<\n@if(scope.attributes) 
/* start of globalAttributeScopeInterface methodsDecl */
<methodsDecl(scope)>
/* End of globalAttributeScopeInterface methodsDecl */
@endif
@end /* end of <scope.name>_Scope interface */
globalAttributeScopeMemVar(scope) ::= <%
/* globalAttributeScopeMemVar */
SymbolStack *<scope.name>_stack;<
<scope.name>_Scope *<scope.name>_scope;<
%
>

globalAttributeScopeImplementation(scope) ::= <%
@implementation <scope.name>_Scope  /* globalAttributeScopeImplementation */
@if(scope.attributes)
/* start of synthesize -- OBJC-Line 1750 */<
synthesize(scope)><
@endif

+(<scope.name>_Scope *)new<scope.name>_Scope
{
  return [[<scope.name>_Scope alloc] init];
}

-(id) init
{
  self = [super init];
  return self;
}
@if(scope.attributes)
/* start of iterate get and set functions */
<methods(scope)><
/* End of iterate get and set functions */
@endif
@end /* end of <scope.name>_Scope implementation */
>%

globalAttributeScopeInit(scope) ::= <<
/* globalAttributeScopeInit */
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];
>>

globalAttributeScopeDealloc(scope) ::= <%
  [<scope.name>_stack release];  
%
>

globalAttributeScope(scope) ::= <%
@if(scope.name)
static <scope.name>_stack;<
@endif
%
>

ruleAttributeScopeMemVar(scope) ::= <%
/* ObjC ruleAttributeScopeMemVar */

ruleAttributeScopeInterface(scope) ::= <%
@if(scope.attributes)>
/* start of ruleAttributeScopeInterface */
@interface <scope.name>_Scope : SymbolsScope {
memVars(scope)}
@end /* end of ruleAttributeScopeInterface */
@endif
%

ruleAttributeScopeImplementation(scope) ::= <%
@if(scope.attributes)>
@implementation <scope.name>_Scope /* start of ruleAttributeScopeImplementation */
synthesize(scope)
@end /* end of ruleAttributeScopeImplementation */
@endif
%

ruleAttributeScopeInit(scope) ::= <%
/* ruleAttributeScopeInit */
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
@end /* end of ruleAttributeScopeInit */
%>
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];
%

ruleAttributeScopeDealloc(scope) ::= <%
    [scope.name]_Scope release;
%>

ruleAttributeScope(scope) ::= <%
    <if(scope.attributes>
        /* ruleAttributeScope */
    static SymbolStack *<scope.name>_stack;
    static <scope.name>_Scope *<scope.name>_scope;
    <endif>
%>

ruleAttributeScopeDecl(scope) ::= <%
    /* ruleAttributeScopeDecl */
    <if(scope.attributes>
        <scope.name>_Scope *<scope.name>_scope;
    <endif>
%>

returnStructName(r) ::= "<className()>_<r.name>_return"

returnType() ::= <%
    <if(!ruleDescriptor.isSynPred>
        <if(ruleDescriptor.hasMultipleReturnValues>
            <ruleDescriptor:returnStructName()> *
        <else>
            <if(ruleDescriptor.hasSingleReturnValue><ruleDescriptor.singleValueReturnType>
        <else>
            void
        <endif>
    <endif>
%>

/** Generate the Objective-C type associated with a single or multiple return
 *  values.
 */
ruleLabelType(referencedRule) ::= <%
    <if(referencedRule.hasMultipleReturnValues>
        <className()>_<referencedRule.name>_return *
    <else>
        <if(referencedRule.hasSingleReturnValue><referencedRule.singleValueReturnTypet><else>
            void
        <endif>
    <endif>
%>
delegateName(d) ::= <\% <if(d.label)>d.label\<else\>g\d.name\<endif\> \%

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <\% <objcTypeInitMap.(typeName)> \%

 /**< Define a rule label including default value */
ruleLabelDef(label) ::= <\%
<ruleLabelType(referencedRule=label.referencedRule)> label.label.text =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<
>%

 /**< Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScopeInterface(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)/* returnScopeInterface <ruleDescriptor:returnStructName()> */
@interface <ruleDescriptor:returnStructName()> : /* returnScopeInterface line 1838 */
@if(TREE_PARSER)>Tree<else>Parser@end /* returnScopeImplementation */<
@if(scope.attributes)/* start of memVars() */
<memVars(scope)><
@endif>
/* start property declarations */
<@properties()><
@if(scope.attributes)/* start of properties() */
<properties(scope)><
@endif>
/* start of method declarations */
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName>();
/* this is start of set and get methods */
@if(methodsDecl() /* methodsDecl */
<methodsDecl(scope)><
@end /* end of returnScopeInterface interface */
@end>

returnScopeImplementation(scope) ::= <\%
@if(ruleDescriptor.hasMultipleReturnValues)@implementation <ruleDescriptor:returnStructName()> /* returnScopeImplementation */\%

@synthesize() /* start of synthesize -- OBJC-Line 1837 */
@if(scope.attributes)
    <synthesize(scope)><\n
@end
+
@endDescriptor:returnStructName()> *new@endDescriptor:returnStructName()> <\n
return [[[@Descriptor:returnStructName()> alloc] init] retain];<\n
</\n
- (id) init<\n
    self = [super init];<\n
    return self;<\n
</\n
@endDescriptor:returnStructName>()<\n
@if(scope.attributes)
/* start of iterate get and set functions */
@endDescriptor:returnStructName>()<\n
/* End of iterate get and set functions */
@actions.(actionScope).ruleReturnMethods
@endDescriptor:returnStructName>()<\n
@end /* end of returnScope implementation */

parameterScope(scope) ::= <<
<! <scope.attributes:{it | :(<it.type>)<it.name>}; separator=" "> !>
<first(scope.attributes):{ a | :(<a.type>)<a.name>}> <rest(scope.attributes):{ a | arg<i>:(<a.type>)<a.name> }; separator=" "> >
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

/** Note that the scopeAttributeRef does not have access to the
* grammar name directly
*/
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
@if(negIndex)
((<scope>_Scope *)[<scope>_stack objectAtIndex:[<scope>_stack size]-<negIndex>-1]).<attr.name>
@else
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name>
@else
((<scope>_Scope *)[<scope>_stack peek]).<attr.name>
@endif
<endif

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scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
/* scopeSetAttributeRef */
@if(negIndex)
((<scope>_Scope *)[<scope>_stack objectAtIndex:(<scope>_stack size]-<negIndex>-1)].<attr.name> = <expr>;</n>
@else
@if(index)
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>].<attr.name> = <expr>;</n>
@else
((<scope>_Scope *)[<scope>_stack peek].<attr.name> = <expr>;</n>
@endf
@endf
%>

scopeAttributeRefStack() ::= <<
/* scopeAttributeRefStack */
@if(negIndex)
((<scope>_Scope *)[<scope>_stack objectAtIndex:<negIndex>-1].<attr.name> = <expr>;</n>
@else
@if(index)
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>].<attr.name> = <expr>;</n>
@else
((<scope>_Scope *)[<scope>_stack peek].<attr.name> = <expr>;</n>
@endf
@endf
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like [ $function.size()>0 && $function::name.equals("foo") ]?
*/
isolatedDynamicScopeRef(scope) ::= 
"<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
@if(referencedRule.hasMultipleReturnValues)
(<scope>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)
@else
<scope>
@endf
@endf
>>

returnAttributeRef(ruleDescriptor, attr) ::= <%
@if(ruleDescriptor.hasMultipleReturnValues)
retval.<attr.name> /* added to returnAttributeRef */
@else
@endf
@endf
<attr.name>
<endif>
%

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>; /* added to returnSetAttributeRef */
<else>
<attr.name> = <expr>;<
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids } or e+=expr {E } */
listLabelRef(label) ::= "list_<label>"

/* not sure the next are the right approach; and they are evaluated early; */
/* they cannot see TREE_PARSER or PARSER attributes for example. :( */
tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!=nil?<scope>.text:nil)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=nil?<scope>.type:0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!=nil?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=nil?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=nil?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!=nil?[<scope> getTokenIndex]:0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!=nil?[<scope>.text integerValue]:0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!=nil?((<labelType> *)<scope>.start):nil)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!=nil?((<labelType> *)<scope>.stopToken):nil)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!=nil?((<ASTLabelType> *)<scope>.tree):nil)"
ruleLabelPropertyRef_text(scope, attr) ::= <%
<if(TREE_PARSER)>
(<scope>!=nil?[input getTokenStream] toStringFromStart:[input getTreeAdaptor] getTokenStartIndex:[<scope> getStart]]
<else>
(<scope>!=nil?[input toStringFromToken:[<scope> getStart] ToToken:[<scope> getStop]]:0)
<endif>
%
>
ruleLabelPropertyRef_st(scope, attr) ::= "(<scope>!=nil?[<scope> st]:nil)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"
lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope> !=nil?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope> !=nil?<scope>.line:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope> !=nil?<scope>.charPositionInLine:1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope> !=nil?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope> !=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope> !=nil?<scope>.text:nil)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope> !=nil?[<scope>.text integerValue]:0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType> *)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType> *)retval.stopToken)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER)>

[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor] getTokenStartIndex:retval.start.token.startIndex]
ToEnd:[[input getTreeAdaptor] getTokenStopIndex:retval.start.token.stopIndex]]
<else>
[input toStringFromToken:retval.start ToToken:[input LT:-1]]
<endif>"

rulePropertyRef_st(scope,attr) ::= "retval.st"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "state.text = <expr>;"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "state.tokenStartLine"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "state.tokenStartCharPositionInLine"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "state.channel=<expr>;"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "state.tokenStartCharIndex"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "(input.index-1)"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "state.type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(input.index-1)"
lexerRulePropertyRef_int(scope,attr) ::= "[<scope>.text integerValue]"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.start =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;" /* "\n">#error StringTemplates are unsupported
*/

/** How to execute an action */
execAction(action) ::= "<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
   <action>
}
<else>
   <action>
<endif>
>
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= "<<
static ANTLRBitSet *<name>;
static const unsigned long long <name>_data[] = { <words64:{it | <it>LL};separator=", "};
>>

bitsetInit(name, words64) ::= "<name> = [[ANTLRBitSet newBitSetWithBits:(const unsigned long long *)<name>_data
Count:(NSUInteger)<length(words64)>] retain];
>>

codeFileExtension() ::= ".m"

true_value() ::= "YES"
false_value() ::= "NO"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

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*/
scalaTypeInitMap ::= [
"Int":"0",
"Long":"0",
"Float":"0.0f",
"Double":"0.0",
"Boolean":"false",
"Byte":"0",
"Short":"0",
"Char":"0",
default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code. */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
import org.antlr.runtime_
@if(TREE_PARSER) import org.antlr.runtime.tree_
@end
@end

<docComment><recognizer> >>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
    superClass="Lexer") ::= <<
object <grammar.recognizerName> {
    <tokens:{it | val <it.name> = <it.type>}; separator="\n">

    <cyclicDFAs:cyclicDFA>() <! dump tables for all DFA !>
}

class <grammar.recognizerName>(input: CharStream, state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input,
    state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
{
    import <grammar.recognizerName>._
    <actions.lexer.members>

    // delegates
    <grammar.delegates: {g|<g.recognizerName> <g:delegateName()>}; separator="\n"> // delegators
    <grammar.delegators: {g|<g.recognizerName> <g:delegateName()>}; separator="\n"> <last(grammar.delegators):{g|public <g.recognizerName> gParent;}> 

    <scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScope()><endif>}> 
    def this(input<grammar.delegators:{g|, <g:delegateName()>}>: CharStream) =
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g:delegateName()>}>).
    <if(memoize)>
        <if(grammar.grammarIsRoot)>
            state.ruleMemo = new Array[Java.util.Map[__.]](numRules)+1)<\n>
        <endif>
    <endif>
    <last(grammar.delegators):{g|gParent = <g:delegateName()>}> 

    <grammar.directDelegates: {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,<p:delegateName()>}>), this}); separator="\n"> 
    <grammar.delegators: {g|<g:delegateName()> = <g:delegateName()>}; separator="\n"> 
    <last(grammar.delegators):{g|gParent = <g:delegateName()>}> 

override def getGrammarFileName = "<fileName>">

<if(filterMode)>
  <filteringNextToken()>
<endif>
  <rules; separator="\n\n">

  <synpreds:{p | <lexerSynpred(p)>>}>
  <cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new <grammar.recognizerName>.DFA<dfa.decisionNumber>(this)}; separator="\n">}

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override def nextToken(): Token = {
  while (true) {
    if ( input.LA(1)==CharStream.EOF ) {
      var eof: Token = new CommonToken((CharStream)input,Token.EOF,
         Token.DEFAULT_CHANNEL,
         input.index(),input.index())
      eof.setLine(getLine())
      eof.setCharPositionInLine(getCharPositionInLine())
      return eof
    } state.token = null
    state.channel = Token.DEFAULT_CHANNEL
    state.tokenStartCharIndex = input.index()
    state.tokenStartCharPositionInLine = input.getCharPositionInLine()
    state.tokenStartLine = input.getLine()
    try {
      val m = input.mark()  
      state.backtracking=1 <! means we won't throw slow exception !>
      state.failed=false
      mTokens()
      state.backtracking=0
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if ( state.failed ) {
        input.rewind(m)
        input.consume() <! advance one char and try again !>
    
    } state.backtracking=0
  }
}

}}
else {
    emit()
    return state.token
}
}
catch {
    case re: RecognitionException =>
        // shouldn't happen in backtracking mode, but...
        reportError(re)
        recover(re)
    }
}
}

override def memoize(input: IntStream,
    ruleIndex: Int,
    ruleStartIndex: Int) = {
    if (state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex)
}

override def alreadyParsedRule(input: IntStream, ruleIndex: Int): Boolean {
    if (state.backtracking>1) return super.alreadyParsedRule(input, ruleIndex)
    return false
}

>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="Object") ::= <<
    object <grammar.recognizerName> {
        <if(grammar.grammarIsRoot)>
        val tokenNames = Array(
            "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator="\"">}
        <endif>

        <tokens:{it | val <it.name> = <it.type> }; separator="\n">

        <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

        <bitsets:{it | <bitset(name=[FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
            bitset, inputStreamType, superClass,
            labelType, members, rewriteElementType,
            filterMode, ASTLabelType="Object") ::= <<
            object <grammar.recognizerName> {
            <if(grammar.grammarIsRoot)>
                val tokenNames = Array(
                    "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator="\"">}
            <endif>

            <tokens:{it | val <it.name> = <it.type> }; separator="\n">

            <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

            <bitsets:{it | <bitset(name=[FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
class <grammar.recognizerName>(input: <inputStreamType>, state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()}> : RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state) {
  // delegates
  <grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n"
  // delegators
  <grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n"
  <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}

  <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}> <globalAttributeScope()> <globalAttributeScope()>

  <@members>
  <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
  def this(input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>: <inputStreamType>) =
  this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g:delegateName()>}>)

  <@members>
  <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
  <parserCtorBody()>
  <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}, this); separator="\n"}
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>}; separator="\n"}
    <last(grammar.delegators):{g|gParent = <g:delegateName()>}>}
  <@end>

  override def getTokenNames: Array[String] = tokenNames
  override def getGrammarFileName = "<fileName>"

  <members>

  <rules; separator="\n\n"SIZE=3>
  <! generate rule/method definitions for imported rules so they
    appear to be defined in this recognizer. !>
  // Delegated rules
  <grammar.delegatedRules:{ruleDescriptor|@throws(classOf[RecognitionException])
    def <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType()> = \
    <if(ruleDescriptor.hasReturnValue)>return
    <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
    es:{a|<a.name>}; separator="," })
    <if(ruleDescriptor.hasReturnValue)>return
    <endif>
    <synpreds:{p | <synpred(p)>}>}

<cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new <grammar.recognizerName>.DFA<dfa.decisionNumber>(this)); separator="\n">}

parserCtorBody() ::= <<
@if(memoize)>
@if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Array(java.util.Map[_-_])(<length(grammar.allImportedRules)>+1)<\n> <! index from 1..n !>
@endif>
@endif>
<grammar.delegators:
[ g | this.<g:delegateName()> = <g:delegateName()> ]; separator="\n">}}

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)
>>

/** How to generate a tree parser; same as parser except the input
 *  stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
    superClass={<if(filterMode){if(buildAST)TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
    members={<actions.treeparser.members>}
}) ::= <<
genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)
>>

/** A simpler version of a rule template that is specific to the imaginary
 *  rules created for syntactic predicates. As they never have return values
 *  nor parameters etc..., just give simplest possible method. Don't do
 *  any of the normal memoization stuff in here either; it's a waste.
 *  As predicates cannot be inlined into the invoking rule, they need to
 *  be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
@throws(classOf[RecognitionException])
def <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
    <ruleLabelDefs()>
    <if(trace)>
traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
try {
   <block>
} finally {
   traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
}
<else>
   <block>
<endif>
} // $ANTLR end <ruleName>
>

synpred(name) ::= <<
final def <name>(): Boolean = {
   state.backtracking+=1
   <@start()>
   val start = input.mark()
   try {
      <name>_fragment() // can never throw exception
   } catch {
      case re: RecognitionException =>
         System.err.println("impossible: "+re)
   }
   val success = !state.failed
   input.rewind(start)
   <@stop()>
   state.backtracking-=1
   state.failed=false
   success
}<
>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize>
   if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()> }
@endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) return <ruleReturnValue()><endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) {state.failed=true; return <ruleReturnValue()> }<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
@throws(classOf[RecognitionException])
final def <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType()> = {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try {
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
>}
<else>
<if(!emptyRule)
<if(actions.(actionScope).rulecatch)
<actions.(actionScope).rulecatch>
<else>
catch {
    case re: RecognitionException =>
        reportError(re)
        recover(input,re)
<@setErrorReturnValue()>
} <un>
<endif>
<endif>
<endif>
<endif>
finally {
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
@throws(classOf[RecognitionException])
final def <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType()>

catch(decl, action) ::= <<
catch (<e.decl>) {
<e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
val retval = new <returnType>()
retval.start = input.LT(1)<
@else
<ruleDescriptor.returnScope.attributes:{ a |
var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
| }
@end
@if(memoize)
val <ruleDescriptor.name>_StartIndex = input.index()
@end
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it | <it>_stack.push(new <it>_scope()); separator="\n"}>
<ruleDescriptor.ruleScope:{it | <it.name>_stack.push(new <it.name>_scope()); separator="\n"}>
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it | <it>_stack.pop(); separator="\n"}>
<ruleDescriptor.ruleScope:{it | <it.name>_stack.pop(); separator="\n"}>
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels] :
:[it | var <it.label.text>: <labelType> = null]; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels] :
:[it | var list_<it.label.text>: java.util.List=null]; separator="\n"
>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :[it | var <it.label.text>: <labelType>=null]; separator="\n"
>
<ruleDescriptor.charLabels:{it | int <it.label.text>;}; separator="\n">
<ruleDescriptor.ruleListLabels]
  :[it | var list_<it.label.text>: java.util.List=null]; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1)<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex) }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for * fragment rules. */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
@throws(classOf[RecognitionException])
final def m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try {
    <if(nakedBlock)>
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      try <block><
    </if>
    <else>
      var _type = <ruleName>
      var _channel = BaseRecognizer.DEFAULT_TOKEN_CHANNEL
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      try <block>
    </else>
    <ruleCleanUp()>
    state.`type` = _type
    state.channel = _channel
    <(ruleDescriptor.actions.after):execAction()>
  <endif>
}
finally {
  <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>)<endif>
  <ruleScopeCleanUp()>
  <memoize()>
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
  @throws(classOf[RecognitionException])
  def mTokens(): Unit = {
    <block><
  }
  
}} // $ANTLR end "<ruleName>"

/* How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,ruleDescriptor) ::= <<
  @throws(classOf[RecognitionException])
  def mTokens(): Unit = {
    <block><
  }
  
}} // $ANTLR end "<ruleName>"

/* How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,ruleDescriptor) ::= <<
  @throws(classOf[RecognitionException])
  def mTokens(): Unit = {
    <block><
  }
  
}} // $ANTLR end "<ruleName>"

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  var alt<decisionNumber> = <maxAlt>
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}>
    case _ =>
  }
  <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  var alt<decisionNumber> = <maxAlt>
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}>
    case _ =>
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description)
n) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>: Int = 0
<decls>
<@preloop()>
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
  var alt<decisionNumber>:Int = <maxAlt>
  <@predecision()>
  <decision>
  <@postdecision()>
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}}
    case _ =>
      if ( cnt<decisionNumber> >= 1 ) loop<decisionNumber>_quitflag = true
      else {
        <ruleBacktrackFailure()>
        val eee = new EarlyExitException(<decisionNumber>, input)
        <@earlyExitException()>
        throw eee
      }
  }
  cnt<decisionNumber>+=1
}
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
<@preloop()>
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
  var alt<decisionNumber>:Int = <maxAlt>
  <@predecision()>
  <decision>
  <@postdecision()>
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}}
    case _ => loop<decisionNumber>_quitflag = true
      }
  }
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= <<
case <altNum> =>
  <$prealt()$
  <$alt$
>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description>
  {
  <$declarations()$
  <$elements:element()$
  <$rew$
  <$cleanup()$
  }
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
  <$prematch()$
  <$e.el$><\n$
>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <$if(label$><label>=<$endif$>`match`(input,$token$,FOLLOW_<$token$>_in_<ruleName><elementIndex$><if(label$>
  _$.asInstanceOf[<labelType$><endif$>

...
*/ ids+=ID */

tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)> >>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new java.util.ArrayList()
list_<label>.add(<elem>)
>>

*/ match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1)
<endif>
'match'(<char>)
<checkRuleBacktrackFailure()>
>>

*/ match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1)
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

*/ For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1)
<else>
<label>=input.LT(1).asInstanceOf[<labelType>]
<endif>
<endif>
if ( <s> ) {
   input.consume()
   <postmatchCode>
<if(!LEXER)>
   state.errorRecovery=false
<endif>
   <if(backtracking)>state.failed=false<endif>
}
else {
    <ruleBacktrackFailure()>
    val mse = new MismatchedSetException(null,input)
    <!-- mismatchedSetException() -->
    <if(LEXER)>
    recover(mse)
    throw mse
    <else>
    throw mse
    <!-- use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>)
    ! -->
    <endif>
} \n
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)>  
    <listLabel(elem=label,...)>  
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
    <if(label)>
    val <label>Start = getCharIndex()
    `match`(<string>)
    <checkRuleBacktrackFailure()>
    val <label>StartLine<elementIndex> = getLine()
    val <label>StartCharPos<elementIndex> = getCharPositionInLine()
    <label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
    getCharIndex()-1)
    <label>.setLine(<label>StartLine<elementIndex>)
    <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
    <else>
    `match`(<string>)
    <checkRuleBacktrackFailure()><\n>
    <endif>
    >>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
    <if(label)>
    <label>=input.LT(1).asInstanceOf[<labelType>]}<\n>
    <endif>
    matchAny(input)
    <checkRuleBacktrackFailure()>
    >>
wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1)<
<endif>
matchAny()
<checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
* /
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)> <label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator="", ")<
state_.fsp-=1
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
* 
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
* /
lexerRuleRef(rule,label,elementIndex,scope) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
`match`(EOF)
<checkRuleBacktrackFailure()>
val <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(EOF)
<checkRuleBacktrackFailure()>
<endif>
>>
// used for left-recursive rules
recRuleDefArg()
::= "int <recRuleArg()>"
recRuleArg()
::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction()
::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name)
::= "$<name>=$<src>.<name>;"
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<

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```java
if ( input.LA(1)==Token.DOWN ) {
    `match`(input, Token.DOWN, null)
    <checkRuleBacktrackFailure>()
    `match`(input, Token.UP, null)
    <checkRuleBacktrackFailure>()
}
<else>
    `match`(input, Token.DOWN, null)
    <checkRuleBacktrackFailure>()
    `match`(input, Token.UP, null)
    <checkRuleBacktrackFailure>()
@endif

/** Every predicate is used as a validating predicate (even when it is
 *  also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
    if ( !(<evalPredicate(...)>) ) {
        <ruleBacktrackFailure>()
        throw new FailedPredicateException(input, "<ruleName>", "<description>")
    }
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    val LA<decisionNumber>_stateNumber = input.LA(<k>)
    <edges; separator="else ">
    else {
        <if(eotPredictsAlt)>
            alt<decisionNumber>=eotPredictsAlt
        </if>
        <else>
            <ruleBacktrackFailure>()
            val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)
            @@noViableAltException()
            throw nvae
        </endif>
    }
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 */
```
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that’s it.
*/

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<
(edges; separator="\nelse ">
<if(eotPredictsAlt)
alt<decisionNumber>=<eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
   alt<decisionNumber>=<eotPredictsAlt>
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
 <targetState>
}
>>

// F i x e d  D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {

...
<edges; separator="\n">
case _ =>
@if(eotPredictsAlt)
  alt<decisionNumber> = <eotPredictsAlt>
@else
  <ruleBacktrackFailure()>
  val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)\n  @@noViableAltException()\n  throw nvae\n@endif
}</n>
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
input.LA(<k>) match {
  <edges; separator="\n">
case _ =>
} \n>>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
input.LA(<k>) match {
  <edges; separator="\n">
  @if(eotPredictsAlt)
    alt<decisionNumber> = <eotPredictsAlt>;
@endif
} \n>>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case <labels:{it | <it>}; separator=" | "> =>
  |
  <targetState>
}>}

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used * in the rule to predict an alt just like the fixed DFA case.* The <name> attribute is inherited via the parser, lexer, ... */
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.*/
* Can’t use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we’re stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
 */
cyclicDFA(dfa) ::= <<
val DFA<dfa.decisionNumber>._eotS = "<dfa.javaCompressedEOT; wrap="""\n"">"
val DFA<dfa.decisionNumber>._eofS = "<dfa.javaCompressedEOF; wrap="""\n"">"
val DFA<dfa.decisionNumber>._minS = "<dfa.javaCompressedMin; wrap="""\n"">"
val DFA<dfa.decisionNumber>._maxS = "<dfa.javaCompressedMax; wrap="""\n"">"
val DFA<dfa.decisionNumber>._acceptS = "<dfa.javaCompressedAccept; wrap="""\n"">"
val DFA<dfa.decisionNumber>._specialS = "<dfa.javaCompressedSpecial; wrap="""\n"">"}>
val DFA<dfa.decisionNumber>._transitionS: Array[String] = Array(
    <dfa.javaCompressedTransition:{s|"<s; wrap="""\n"">"}; separator=""\n">"
)
val DFA<dfa.decisionNumber>._eot: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>._eotS)
val DFA<dfa.decisionNumber>._eof: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>._eofS)
val DFA<dfa.decisionNumber>._min: Array[Char] = DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>._minS)
val DFA<dfa.decisionNumber>._max: Array[Char] = DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>._maxS)
val DFA<dfa.decisionNumber>._accept: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>._acceptS)
val DFA<dfa.decisionNumber>._special: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>._specialS)
val DFA<dfa.decisionNumber>._transition = new Array[Array[Short]](DFA<dfa.decisionNumber>._transitionS.length)
for (i \(- DFA<dfa.decisionNumber>._transition.indices) {
    DFA<dfa.decisionNumber>._transition(i) = DFA.unpackEncodedString(DFA<dfa.decisionNumber>._transitionS(i))
}

class DFA<dfa.decisionNumber> extends DFA {
    def this(recognizer: BaseRecognizer) = {
        this()
        this.recognizer = recognizer
        this.decisionNumber = <dfa.decisionNumber>
    }

this.eot = DFA<dfa.decisionNumber>_eot
this.eof = DFA<dfa.decisionNumber>_eof
this.min = DFA<dfa.decisionNumber>_min
this.max = DFA<dfa.decisionNumber>_max
this.accept = DFA<dfa.decisionNumber>_accept
this.special = DFA<dfa.decisionNumber>_special
this.transition = DFA<dfa.decisionNumber>_transition
}
override def getDescription = "<dfa.description>"
<@errorMethod()>
<if(dfa.specialStateSTs)>
@throws(classOf[NoViableAltException])
override def specialStateTransition(s: Int, _input: IntStream):Int = {
  <if(LEXER)>
  val input = _input
  <endif>
  <if(PARSER)>
  val input = _input.asInstanceOf[TokenStream]
  <endif>
  <if(TREE_PARSER)>
  val input = _input.asInstanceOf[TreeNodeStream]
  <endif>
  val _s = s
  s match {
    <dfa.specialStateSTs:{state |
      case <i0> => <! compressed special state numbers 0..n-1 !>
      <state>}; separator="\n">
    case _ =>
  }
  <if(backtracking)>
    if (state.backtracking>0) {state.failed=true; return -1}<\n>
  <endif>
  val nvae = new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input)
  error(nvae)
  throw nvae
}<\n>
<endif>
}<\n>
/** A state in a cyclic DFA; it's a special state and part of a big switch on * state.
 */
cyclicDFAStrategy(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <\n  val LA<decisionNumber>_<stateNumber>: Int = input.LA(1)<\n  <if(semPredState)>
    <! get next lookahead symbol to test edges, then rewind !>
    val index<decisionNumber>_<stateNumber>: Int = input.index()
    input.rewind()<\n>
s = -1
<edges; separator="; separator="nelse">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)
<endif>
if ( s>=0 ) return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber><
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(pred,"")>)"
evalPredicate(pred,description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>)
>>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >=<lower>
& & input.LA(<k>) \< = \< upper>)"

setTest(ranges) ::= "<ranges; separator="|||"">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes>
class <scope.name>_scope {
    <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n"}
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes>
class <scope.name>_scope {
    <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n"}
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<
<endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues>
<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue>
<ruleDescriptor.singleValueReturnType>
<else>
Unit
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue>
<referencedRule.singleValueReturnType>
<else>
delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<scalaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>

>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
* TODO(matthewlloyd): make this static
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
final class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
    <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
    <@ruleReturnMembers()>
    }
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it | <it.name>: <it.type}>; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr.expr) ::= "<attr.name> ="<expr>"

scopeAttributeRef(scope,attr/index/negIndex) ::= <%
<if(negIndex)>
<scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name>
<else>

--
<if(index)>
<scope>_stack(<index>).<attr.name>
<else>
<scope>_stack.top.<attr.name>
<endif>
<endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name> = <expr>
<else>
<if(index)>
<scope>_stack(<index>).<attr.name> = <expr>
<else>
<scope>_stack.top.<attr.name> = <expr>
<endif>
<endif>
%

/** $x is either global scope or $x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 & $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(if (<scope>!=null) <scope>.<attr.name> else <initValue(attr.type)>)
<else>
<scope>
<endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>
<else>
<attr.name> =<expr>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID [Ids] or e+=expr [Se] */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(if (<scope>!=null) <scope>.getText() else null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(if (<scope>!=null) <scope>.getType() else 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(if (<scope>!=null) <scope>.getCharPositionInLine() else 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(if (<scope>!=null) <scope>.getChannel() else 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(if (<scope>!=null) <scope>.start.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(if (<scope>!=null) <scope>.stop.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(if (<scope>!=null) <scope>.tree.asInstanceOf[ASTLabelType] else null)"
ruleLabelPropertyRef_text(scope,attr) ::= "(if (<scope>!=null) input.toString(<scope>.start, <scope>.stop) else null)"

/* Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(if (<scope>!=null) <scope>.getType() else 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(if (<scope>!=null) <scope>.getCharPositionInLine() else -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(if (<scope>!=null) <scope>.getChannel() else 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getText() else null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= 
"(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(retval.start.asInstanceOf[<labelType>])"
rulePropertyRef_stop(scope,attr) ::= "(retval.stop.asInstanceOf[<labelType>])"
rulePropertyRef_tree(scope,attr) ::= "(retval.tree.asInstanceOf[<ASTLabelType>])"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    input.getTokenStream().toString(
        input.getTreeAdaptor().getTokenStartIndex(retval.start),
        input.getTreeAdaptor().getTokenStopIndex(retval.start))
  <else>
    input.toString(retval.start,input.LT(-1))
  <endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

//** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {
      <action>
    } <else>
      <action>
  <endif>
>>
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= "<<
val <name> = new BitSet(Array[Long](<words64:{it | <it>L};separator="",>))<<
>>

codeFileExtension() ::= ".scala"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources.jar/org/antlr/codegen/templates/Scala/Scala.stg

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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
**ST** @returnScopeInterface.memVars() ::= <<
<@super.memVars()>
/* ST returnInterface.memVars */
ST *st;
>>

**ST** @returnScopeInterface.properties() ::= <<
<@super.properties()>
/* ST returnScope.properties */
@property (retain, getter=getST, setter=setST:): ST *st;
>>

**ST** @returnScopeInterface.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST AST returnScopeInterface.methodsDecl */
- (id) getTemplate;
- (NSString *) toString;
- (NSString *) description;
>>

**ST** @returnScopeInterface() ::= <<
/*@returnScopeInterface()*/
@interface <returnScopeInterface.name> : ReturnScope {
<returnScopeInterface.memVars()>
}
<returnScopeInterface.properties()>

<returnScopeInterface.methods()>
@end
>>

**ST** @returnScopeImplementation.synthesize() ::= <<
<@super.synthesize()>
/* ST returnScope.synthesize */
@synthesize st;
>>

**ST** @returnScopeImplementation.methods() ::= <<
<@super.methods()>
/* ST returnScope.methods */
- (id) getTemplate { return st; }
- (NSString *) toString { return st==nil?nil:[st toString]; }
- (NSString *) description { [self toString]; }
>>

@returnScopeImplementation() ::= <<
@implementation <returnScopeImplementation.name>
<returnScopeImplementation.synthesize()>

<returnScopeImplementation.methods()>
@end

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
<@super.ruleReturnMembers()>
/* ST returnScope.ruleReturnMembers -- empty */
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
<@super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

- (STGroup *) getTemplateLib
{
  return templateLib;
}
- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}

>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup:@"<name>Templates"];  

- (STGroup *) getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *) templateLib
{
    this.templateLib = templateLib;
}

/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put(...)"
*/

/* REPLACE THIS STATIC CLASS 
static class STAttrMap extends HashMap {
- (STAttrMap *) setObject:(id)aValue forKey:(NS*)String attrName
{
    [super setObject:value forKey:attrName];
    return self;
}
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName
{
    [super setObject:[NSNumber numberWithInteger:value] forKey:attrName];
    return self;
}
} */

@STAttrMap() ::= <<
/* -------- ST start STAttrMap ------------ */
<@STAttrMap.interface()>
<@STAttrMap.implementation()>
/* -------- ST end STAttrMap ------------ */

>>

@STAttrMap() ::= <<
/* ------- ST start STAttrMap ------- */
<@STAttrMap.interface()>
<@STAttrMap.implementation()>
/* ------- ST end STAttrMap ------- */

>>
@STAttrMap.interface() ::= <<
/* -------- ST start STAttrMap.interface ------------ */
@interface STAttrMap : HashMap {
/*    <@STAttrMap.memVars()> */
STGroup *templateLib;
}
/*    <@STAttrMap.properties()> */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/*    <@STAttrMap.methodsDecl()> */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
@end
/* -------- ST end STAttrMap.interface ------------ */
>>

@STAttrMap.implementation() ::= <<
/* -------- ST start STAttrMap.implementation ------------ */
/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put(...)"
*/
@implementation STAttrMap
@synthesize templateLib;

<@STAttrMap.methods()>
@end
/* -------- ST end STAttrMap.implementation ------------ */
>>

@STAttrMap.memVars() ::= <<
/* -------- ST start STAttrMap.memVars ------------ */
STGroup *templateLib;
/* -------- ST end STAttrMap.memVars ------------- */
>>

@STAttrMap.properties() ::= <<
/* -------- ST start STAttrMap.properties ------------ */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* -------- ST end STAttrMap.properties ----------- */
>>

@STAttrMap.methodsDecl() ::= <<
/* -------- ST start STAttrMap.methodsDecl ------------ */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
>>
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;

/* -------- ST end STAttrMap.methodsDecl ------------ */

>>

@STAttrMap.methods() ::= <<
/* -------- ST start STAttrMap.methods ------------ */

- (id) init {
  self = [super initWithLen:16];
  if ( self != nil ) {
    templateLib = [STGroup newSTGroup:"<name>Templates"];  
  }
  return self;
}

- (STAttrMap *) setObject:(id)aValue forKey:(NSString *)aAttrName {
  [super setObject:aValue forKey:aAttrName];
  return self;
}

- (STAttrMap *) setObjectWithInt:(NSInteger)aValue forKey:(NSString *)aAttrName {
  [super setObject:[NSNumber numberWithInteger:aValue] forKey:aAttrName];
  return self;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib {
  templateLib = aTemplateLib;
}

- (STGroup *) getTemplateLib {
  return templateLib;
}

/* -------- ST end STAttrMap.methods ------------ */

>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ST ruleRefAndListLabel */
<ruleRef(....)>  
<listLabel(elem=[label getTemplate,...]>  

>>

rewriteTemplate(alts) ::= <<
/* -------- ST start rewriteTemplate ------------ */
// TEMPLATE REWRITE
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    } <else>
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    <endif>
/* -------- ST end rewriteTemplate ------------ */
>>

replaceTextInLine() ::= <<
/* -------- ST start replaceTextInLine ------------ */
@if(TREE_PARSER)>
[[TokenRewriteStream *)input getTokenStream]
    replaceFromIndex:[[input getTreeAdaptor] getTokenStartIndex:retval.start]
    ToIndex:[[input getTreeAdaptor] getTokenStopIndex:retval.start]
    Text:retval.st];
<else>
    ((TokenRewriteStream *)input)
    replaceFromIndex:[[((CommonToken *)retval.start) getTokenIndex]
    ToIndex:[[input LT:-1] getTokenIndex]
    Text:retval.st];
<endif>
/* -------- ST end replaceTextInLine ------------ */
>>

rewriteTemplateAlt() ::= <<
/* -------- ST start rewriteTemplateAlt ------------ */
/* ST <it.description> */
@if(it.pred)>
if (<it.pred>) {
    retval.st = <it.alt>;
} <\n>
<else>
    
    retval.st = <it.alt>;
} <\n>
<endif>
/* -------- ST end rewriteTemplateAlt ------------ */
>>

rewriteEmptyTemplate(alts) ::= <<
nil;
>>
**Invoke a template with a set of attribute name/value pairs.**

* Set the value of the rule's template after having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
 rewriteExternalTemplate(name,args) ::= <<
  /* -------- ST start rewriteExternalTemplate ------------ */
  [templateLib getInstanceOf:@"<name>"
   <if(args)>[[STAttrMap newSTAttrMap] <args:{a | setObject:<a.value> forKey:@"<a.name>"}]]<endif>]
  /* -------- ST end rewriteExternalTemplate ------------ */
>>

/** expr is a string expression that says what template to load */
 rewriteIndirectTemplate(expr,args) ::= <<
  /* -------- ST start rewriteIndirectTemplate ------------ */
  [templateLib getInstanceOf:<expr>
   <if(args)>[[STAttrMap newSTAttrMap] <args:{a | setObject:<a.value> forKey:@"<a.name>"}]]<else>]
  /* -------- ST end rewriteIndirectTemplate ------------ */
>>

/** Invoke an inline template with a set of attribute name/value pairs */
 rewriteInlineTemplate(args, template) ::= <<
  /* -------- ST start rewriteInlineTemplate ------------ */
  STGroup *templateLib;
  templateLib.templates = [STAttrMap newSTAttrMap];
  <if(args)>
  [templateLib.templates <args:{a | setObject:<a.value> forKey:@"<a.name>"}];]><endif>
  [ST newST:templateLib template:@"<template>"];
  /* -------- ST end rewriteInlineTemplate ------------ */
>>

/** plain -> {foo} action */
 rewriteAction(action) ::= <<
  /* -------- ST start rewriteAction ------------ */
  <action>
  /* -------- ST end rewriteAction ------------ */
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
 actionSetAttribute(st,attrName,expr) ::= <<
  /* -------- ST start actionSetAttribute ------------ */
  [[ST attributes] setObject:<expr> forKey:@"<attrName>"];
  <![[st] setAttribute:<expr> name:@"<attrName>"]!>
  /* -------- ST end actionSetAttribute ------------ */
>>
/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
/*-------- ST start actionStringConstructor --------- */
[ST newSTWithTemplate:<stringExpr>]
/*-------- ST end actionStringConstructor --------- */
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ST.stg
No license file was found, but licenses were detected in source scan.

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*/

/** Templates for building ASTs during tree parsing. */
* * Deal with many combinations. Dimensions are:
* * Auto build or rewrite
* * no label, label, list label (label/no-label handled together)
* * child, root
* * token, set, rule, wildcard
*
* Each combination has its own template except that label/no label * is combined into tokenRef, ruleRef, ...
*/

finishedBacktracking(block) ::= <<
  if (backtracking)
  if <actions.(actionScope).synpredgate>:
    <block>
  else
  <block>
  <endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  _first_0 = None
  _last = None
>>

/** What to emit when there is no rewrite rule. For auto build * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  finishedBacktracking({
  <if (rewriteMode)>
  retval.tree = _first_0
  if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
    retval.tree = self._adaptor.getParent(retval.tree)
  </if>
  })
>>

/** match ^(root children) in tree parser; override here to * add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
  _last = self.input.LT(1)
  _save_last_<treeLevel> = _last
  _first_<treeLevel> = None
  <if (!rewriteMode)>
  root_<treeLevel> = self._adaptor.nil()
  </if>
  <root:element()>
  <if (rewriteMode)>
  <finishedBacktracking({
  <if (root.el.rule)>

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if _first_._<enclosingTreeLevel> is None:
    _first_._<enclosingTreeLevel> = <root.el.label>._tree
<else>
if _first_._<enclosingTreeLevel> is None:
    _first_._<enclosingTreeLevel> = <root.el.label>
<endif>
}
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root._<enclosingTreeLevel>, root._<treeLevel>)
<endif>
_last = _save_last_<treeLevel>
>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add *
* setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
    _last = self.input.LT(1)
    <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
    _last = self.input.LT(1)
    <super.tokenRef(...)>
<if(!rewriteMode)>
    <finishedBacktracking({
        <if(terminalOptions.node)>
            <label>_tree = <terminalOptions.node>(<label>)
        <else>
            <label>_tree = self._adaptor.dupNode(<label>)
        <endif>
    })
>>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
}

<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label><\n
})>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions=[]) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)
<if(!rewriteMode)
<finishedBacktracking({
<if(terminalOptions.node)
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.wildcard(...)
<if(!rewriteMode)
<finishedBacktracking({
<label>_tree = self._adaptor.dupTree(<label>)
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
  if _first_ <treeLevel> is None:
    _first_ <treeLevel> = <label>
})>
<endif>
>>

// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(postmatchCode={
    <if(!rewriteMode)>
      <finishedBacktracking({
        <if(terminalOptions.node)>
          <label> _tree = <terminalOptions.node>(<label>)
        <else>
          <label> _tree = self._adaptor.dupNode(<label>)
        <endif>
        self._adaptor.addChild(root_<treeLevel>, <label> _tree)
      })>
      <endif>
    }, ...)
  }>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
  <matchSet(...)>
  <noRewrite(...)>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(...)>
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
  <super.matchSet(postmatchCode={
    <if(!rewriteMode)>
      <finishedBacktracking({
        <if(terminalOptions.node)>
          <label> _tree = <terminalOptions.node>(<label>)
        <else>
          <label> _tree = self._adaptor.dupNode(<label>)
        <endif>
        root_<treeLevel> = self._adaptor.becomeRoot(<label> _tree, root_<treeLevel>)
      })>
      <endif>
    }, ...)
  }>>
// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRef(...)>
  <finishedBacktracking({
    <if(!rewriteMode)>
      self._adaptor.addChild(root_<treeLevel>, <label>.tree)
    <else>  <! rewrite mode !>
      if _first_<treeLevel> is None:
        _first_<treeLevel> = <label>.tree
      <endif>
    })>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>  
  <listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRef(...)>
  <if(!rewriteMode)>
    root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>  
  <listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/** Streams for token refs are tree nodes now; override to */
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking(
{retval.tree = self._adaptor.rulePostProcessing(root_0) }
})
<endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python3/ASTTreeParser.stg
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*/

/** Templates for building ASTs during normal parsing.  
 * Deal with many combinations.  Dimensions are:  
 * Auto build or rewrite  
 * no label, label, list label  (label/no-label handled together)  
 * child, root  
 * token, set, rule, wildcard  
 *  
 * The situation is not too bad as rewrite (->) usage makes ^ and !  
 * invalid. There is no huge explosion of combinations.  
 */
@rule.setErrorReturnValue() ::= <<
/* ASTParser rule.setErrorReturnValue */
retval.tree = (<ASTLabelType>*)[treeAdaptor errorNode:input From:retval.start To:[input LT:-1] Exception:re];
<! System.out.println("<ruleName> returns "+(CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser tokenRef */
<super.tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
[treeAdaptor addChild:<label>_tree toTree:root_0];
@if(backtracking)>}<endif>
/* ID! and output=AST (same as plain tokenRef) */
/* ASTParser tokenRefBang */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

/* ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
  <super.tokenRef(...>)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = <createNodeFromToken(...)>
  root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0]
  <if(backtracking)>}<endif>
  >>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  /* ASTParser tokenRefBangAndListLabel */
  <tokenRefBang(...>)
  <listLabel(elem=label,...)> 
  >>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  /* ASTParser tokenRefAndListLabel */
  <tokenRef(...>)
  <listLabel(elem=label,...)> 
  >>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
  /* ASTParser tokenRefRuleRootAndListLabel */
  <tokenRefRuleRoot(...>)
  <listLabel(elem=label,...)> 
  >>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.
matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <%
/* ASTParser matchSet */
<super.matchSet(postmatchCode={if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    [treeAdaptor addChild:<createNodeFromToken(...) toTree:root_0 ];}, ...)>
%

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */
<if(label)><label>=(<labelType> *)[input LT:1]; /* matchSetRuleRoot */</n>
<endif>
<super.matchSet(postmatchCode={if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...) toTree:root_0];}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
[treeAdaptor addChild:[<label> getTree] toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_0];
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefAndListLabel */
<ruleRef(...)>
<listLabel(elem = {{<label> getTree}}...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefBangAndListLabel */
<ruleRefBang(...)>
<listLabel(elem = {{<label> getTree}}...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {{<label> getTree}}...)>
>>

// WILDCARD AST

wildcard(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    [treeAdaptor addChild:[[treeAdaptor create:<label>] retain] toTree:root_0];
<if(backtracking)>}<endif>
>>

wildcardBang(token, label, elementIndex, terminalOptions) ::= "<super.wildcard(...)>">

wildcardRuleRoot(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser wildcardRuleRoot */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <label>_tree = [[treeAdaptor create:<label>] retain]
    root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
>>

createNodeFromToken(label, terminalOptions) ::= <<
/* ASTParser createNodeFromToken */
<if(terminalOptions.node)>
    [<terminalOptions.node> new<terminalOptions.node>:<label>] <! new MethodNode(IDLabel) !>
<else>
    (<ASTLabelType> *)[treeAdaptor create:<label>] retain]
<endif>
// straight from java cleanup ///</br>
ruleCleanUp() ::= <<</br>/* ASTParser ruleCleanUp */</br> <super.ruleCleanUp()></br> <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];</br> [treeAdaptor setTokenBoundaries:retval.tree From:retval.start To:retval.stopToken];</br> <if(backtracking)>}<endif> </br>></br>Found in path(s):</br>* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ASTParser.stg</br>No license file was found, but licenses were detected in source scan.</br></br>group Dbg;</br></br>/*</br>[The "BSD license"]</br>Copyright (c) 2005-2009 Terence Parr</br>All rights reserved.</br></br>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</br>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</br>2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</br>3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.</br></br>THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</br>*/</br></br>@parserBody.mixins() ::= <<
include ANTLR3::if(profile)>Profile<else>Debug<endif>::ParserEvents
>>

@parserBody.additionalMembers() ::= <<
@if(grammar.grammarIsRoot>
RULE_NAMES = [
   :invalid_rule, <grammar.allImportedRules:{rST};<rST.name> ]; wrap="\n  ", separator="", "
].freeze
@end
>>

@rule.body() ::= <<
in_rule(grammar_file_name, "<ruleName>") do
   @debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
   @@super.body()
   @debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
end
>>

// Common debug event triggers used by region overrides below
enterSubRule() ::= <<
in_subrule(<decisionNumber>) do\n>>

exitSubRule() ::= <<
end\n>>

enterDecision() ::= <<
in_decision(<decisionNumber>) do\n>>

exitDecision() ::= <<
end\n>>

enterAlt(n) ::= <<
in_alternative(<n>)\n>>
// Region overrides that tell various constructs to add debugging triggers
@block.body() ::= <<
in_subrule(<decisionNumber>) do
  @@super.body()
end
>>

//@blockBody.predecision() ::= "<enterSubRule()>">
//@blockBody.postdecision() ::= "<exitDecision()>">
//@blockBody.postbranch() ::= "<exitSubRule()>">
@blockBody.decision() ::= <<
in_decision(<decisionNumber>) do
  @@super.decision()
end
>>

@ruleBlock.decision() ::= <<
in_decision(<decisionNumber>) do
  @@super.decision()
end
>>

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n={1})>">

@blockSingleAlt.prealt() ::= "<enterAlt(n={1})>">

@positiveClosureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  @@super.loopBody()
end
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  @@super.decisionBody()
end
>>

@positiveClosureBlockLoop.earlyExitException() ::= <<
@debug_listener.recognition_exception(eee)
>>

@closureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  @@super.loopBody()
end
>>

@closureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  @@super.decisionBody()
end
>>

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase

element(e) ::= <<
  @debug_listener.location(<e.line>, <e.pos>) // e is arg of element
  <super.element(e)>
>>

@matchSet.mismatchedSetException() ::= "@debug_listener.recognition_exception(mse)"

@dfaState.noViableAltException() ::= <<
nvae = NoViableAlternative( "<description>", <decisionNumber>, <stateNumber> )
  @debug_listener.recognition_exception( nvae )
  raise( nvae )\n>
>>

@dfaStateSwitch.noViableAltException() ::= <<
nvae = NoViableAlternative( "<description>", <decisionNumber>, <stateNumber> )
  @debug_listener.recognition_exception( nvae )
  raise( nvae )\n>
>>

dfaDecision(decisionNumber,description) ::= <<
begin
  @state.cyclic_decision = true
  <super.dfaDecision(...)>
rescue ANTLR3::Error::NoViableAlternative => nvae
  @debug_listener.recognition_exception(nvae)
raise
end
>>

@cyclicDFA.errorMethod() ::= <<
def error(nvae)
    @recognizer.debug_listener.recognition_exception(nvae)
super
end
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
predicate?("<description>") { <pred> }
>>

Found in path(s):
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Ruby/Dbg.stg
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/** Templates for building ASTs during normal parsing. */

* Deal with many combinations. Dimensions are:
*   Auto build or rewrite
*   no label, label, list label (label/no-label handled together)
*   child, root
*   token, set, rule, wildcard
*   The situation is not too bad as rewrite (->) usage makes ^ and !
*   invalid. There is no huge explosion of combinations.
*
@return

@rule.setErrorReturnValue() ::= <<
retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));
>>

TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
@if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
@if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>
/** label+=TOKEN when output=AST but not rewrite alt */

tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>>
<listLabel(elem=label,...)> >>

/** Match label+=TOKEN\(^{+}\) when output=AST but not rewrite alt */

tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)> >>

/// SET AST

/// the match set stuff is interesting in that it uses an argument list
/// to pass code to the default matchSet; another possible way to alter
/// inherited code. I don't use the region stuff because I need to pass
/// different chunks depending on the operator. I don't like making
/// the template name have the operator as the number of templates gets
/// large but this is the most flexible--this is as opposed to having
/// the code generator call matchSet then add root code or ruleroot code
/// plus list label plus ... The combinations might require complicated
/// rather than just added on code. Investigate that refactoring when
/// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>);},...)>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)> >>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>"

/// note there is no matchSetTrack because -> rewrites force sets to be
/// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));},...)>>
// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>;
  <if(backtracking)>if ( actions.(actionScope).synpredgate ) <endif>ADAPTOR->addChild(ADAPTOR, root_0, <label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)»

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>;
  <if(backtracking)>if ( actions.(actionScope).synpredgate ) <endif>root_0 = (<ASTLabelType>(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_0));
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>;
  <listLabelAST(...)>;
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>;
  <listLabelAST(...)>;
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>;
  <listLabelAST(...)>;
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <super.wildcard(...)>;
  <if(backtracking)>if ( actions.(actionScope).synpredgate ) {<endif>
    <label>_tree = (<ASTLabelType>(ADAPTOR->create(ADAPTOR, <label>));
    ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
  <if(backtracking)>}<endif>
>>
wildcardBang(token, label, elementIndex, terminalOptions) ::= "<super.wildcard(...)>
"

wildcardRuleRoot(label, elementIndex) ::= <<
<super.wildcard(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, label));
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
@if(backtracking)>}<endif>
>>

createNodeFromToken(label, terminalOptions) ::= <<
@if(terminalOptions.node)>
<terminalOptions.node>New(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, label))
@endif
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{<\n>
@if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
@endif
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
<ruleDescriptor.allTokenRefsInAltsWithRewrites:
{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:
{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
@if(backtracking)>}
<\n>
@endif
>>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/ASTParser.stg
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*/

/** Templates for building ASTs during tree parsing.
 * 
 * Deal with many combinations. Dimensions are:
 * 
 * Auto build or rewrite
 * 
 * no label, label, list label (label/no-label handled together)
 * 
 * child, root
 * 
 * token, set, rule, wildcard
 * 
 * Each combination has its own template except that label/no label
 * 
 * is combined into tokenRef, ruleRef, ...
 */

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
#if(!ruleDescriptor.isSynPred)
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<
#endif>
>>

/** What to emit when there is no rewrite rule. For auto build
 * 
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
#if(!ruleDescriptor.isSynPred)
#if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
#if(rewriteMode)
retval.tree = _first_0;
if ( (adaptor.getparent(retval.tree)!=null & & adaptor.isnil( adaptor.getparent(retval.tree) ) ) )
retval.tree = (<ASTLabelType>)adaptor.getparent(retval.tree);
#endif
#if(backtracking)>}<endif>
#endif>
>>

/** match ^(root children) in tree parser; override here to
 * 
 * add tree construction actions.
tree(root, actionsAfterRoot, children, nullableChildList, 
enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{
ASTLabelType _save_last_<treeLevel> = _last;
ASTLabelType _first_<treeLevel> = null;
<if(!rewriteMode)>
ASTLabelType root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> =
(<ASTLabelType>)root.el.label).getTree();
<elseif(root.el.label)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
  super.tokenRef(...)
  else
    super.tokenRefBang(...)
  endif
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  if(!ruleDescriptor.isSynPred)
    tokenRef(...)
    listLabel(elem=label,...)
  else
    super.tokenRefAndListLabel(...)
  endif
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    super.tokenRef(...)
    if(!rewriteMode)
      if(backtracking)
        if ( <actions.(actionScope).synpredgate> ) { endif
      endif
      if(terminalOptions.node)
        label._tree = new <terminalOptions.node>(<label>);
      else
        label._tree = (<ASTLabelType>)adaptor.dupNode(<label>);
      endif
      adaptor.addChild(root._treeLevel, label._tree);
    else
      if(backtracking) } endif
    else
      if(backtracking)
        if ( <actions.(actionScope).synpredgate> ) endif
      endif
      if (_first._treeLevel==null ) _first._treeLevel = <label>;
    endif
  else
    super.tokenRefAndListLabel(...)
  endif
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    super.tokenRef(...)
    if(!rewriteMode)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>) adaptor.dupNode(<label>);
<endif>

root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>

<else>
<super.tokenRefRuleRoot(...)>;
<endif>

/** Match ^([^=]+TOKEN ... ) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
tokenRefRuleRoot(...);
</if>
<listLabel(elem=label,...)>;
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>

/** Match . wildcard and auto dup the node/subtree */
 wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>) input.LT(1);
<super.wildcard(...)>
</if>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
<label>_tree = (<ASTLabelType>) adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>

else freopen ! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>

<else>
<super.wildcard(...)>
<endif>

// SET AST

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>) input.LT(1);
<super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>
  <endif>
  <if(!rewriteMode)>{<endif>
  <if(terminalOptions.node)>
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>
  <endif>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <matchSet(...)>
  <noRewrite(...)>
  <else>
  <super.matchRuleBlockSet(...)>
  <endif>
  >>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)
  <else>
  <super.matchSetBang(...)>
  <endif>
  >>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>
  <endif>
<endif>
}, ...
>
<else>
<super.matchSetRuleRoot(>)
<endif>
>
// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> ! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = (<ASTLabelType>)<label>.getTree();
<endif>
<else>
<super.ruleRef(...)>
<endif>
>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefAndListLabel(...)
<endif>
>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
((<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)
    <ruleRefRuleRoot(...)>
    <listLabel(label, {<label>.getTree()})>
  <else>
    <super.ruleRefRuleRootAndListLabel(...>
  <endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefTrackAndListLabel(...>
  <else>
    <super.ruleRefTrackAndListLabel(...>
  <endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefRuleRootTrack(...>
  <else>
    <super.ruleRefRuleRootTrack(...>
  <endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefRuleRootTrackAndListLabel(...>
  <else>
    <super.ruleRefRuleRootTrackAndListLabel(...>
  <endif>
>>
/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <<
  <if(terminalOptions.node)>
    new <terminalOptions.node>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  </if>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!ruleDescriptor.isSynPred)>
    <if(!rewriteMode)>
      <if(backtracking)>
        if ( <actions.(actionScope).synpredgate> ) {
          <
        }<endif>
      retval.tree = (<ASTLabelType>) adaptor.rulePostProcessing(root_0);
      <if(backtracking)>
        <endif>
      </if>
    </if>
  </if>
>>

Found in path(s):
  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg

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*/
/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.

*/

group antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/templates/messages/formats/vs2005.stg
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 */

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)_first_0;
    retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}<endif>
<endif>
<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_treeLevel = _last;
<ASTLabelType> _first_treeLevel = default(<ASTLabelType>);
<if(!rewriteMode)>
<ASTLabelType> root_treeLevel = (<ASTLabelType>)adaptor.Nil();
<endif>
[root:element()]
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<endif>
<if(root.el.rule)>
if (_first_._enclosingTreeLevel_ == null) _first_._enclosingTreeLevel_ = <root.el.label>._Tree;

if (_first_._enclosingTreeLevel_ == null) _first_._enclosingTreeLevel_ = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList())>
<if(input.LA(1) == TokenTypes.Down) {
  Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
  Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
  adaptor.AddChild(root._enclosingTreeLevel_, root._treeLevel_);
<endif>
_last = _save_last_.treeLevel;
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add * setting of _last */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRefType>input.LT(1);
<else>
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<endif>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRefType>input.LT(1);
<else>
<super.tokenRefBang(...)>
<endif>
>>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t()),<terminalOptions.text; format="string"> <endif>);
</else>
<label>_tree =
(</ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t()),<terminalOptions.text; format="string"> <endif>);
</endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> }<endif>
</else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
</else>
<super.tokenRef(...)>
<endif>
>
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
</if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t()),<terminalOptions.text; format="string"> <endif>);
</else>
<label>_tree =
(</ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t()),<terminalOptions.text; format="string"> <endif>);
</endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)> }<endif>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
 _last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t()),<terminalOptions.text; format="string"> <endif>);
</else>
<label>_tree =
(</ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t()),<terminalOptions.text; format="string"> <endif>);
</endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)> }<endif>
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRuleRootAndListLabel(token, label, elementIndex, terminalOptions) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <tokenRefRuleRoot(...)>
  <listLabelElem(elem=label,...)>
  <else>
  <super.tokenRefRuleRootAndListLabel(...)>
  </endif>
</>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token, label, elementIndex, terminalOptions) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.wildcard(...)>
    <if(!rewriteMode)>
      <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
        <label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
        adaptor.AddChild(root_<treeLevel>, <label>_tree);
        <if(backtracking)>}<endif>
      </if(backtracking)>}
    </if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
    if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
    <endif>
  </if(!rewriteMode)>
  <else> <!-- rewrite mode -->
    <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
    if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
    <endif>
  </else>
  <super.wildcard(...)>
</>

// SET AST
matchSet(s, label, terminalOptions, elementIndex, postmatchCode) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.matchSet(postmatchCode={
    <if(!rewriteMode)>
      <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
        <label>_tree = new
        <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text),<terminalOptions.type; format="string">;<terminalOptions.text("string"));
      </if(backtracking)>}
    </if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
    <if(terminalOptions.node)>
      <label>_tree = new
      <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.txt
      </terminalOptions.node, <if(terminalOptions.type),<endif><label><if(terminalOptions.text; format="string"));
      </if(backtracking)>}
    </else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string";<endif>);
<endif></label>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>\}<endif>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<if(!ruleDescriptor.isSynPred)
<matchSet(...)>
<norRewrite(...)<! set return tree !>
<else>
<super.matchRuleBlockSet(...)
<endif>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)
<else>
<super.matchSetBang(...)
<endif>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(!ruleDescriptor.isSynPred)
<super.matchSet(postmatchCode={
<if(!rewriteMode)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)
<label>_tree = new
<terminalOptions.node>({<if(terminalOptions.type)<terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string";<endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string";<endif>);
<endif></label>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>\}<endif>

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<endif>
}, ...
>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
;if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
;if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
;if(!rewriteMode)>
;if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
```/* ^(*+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <ruleRefRuleRoot(...)>
    <listLabelElem(elem={<label>.Tree},...)>
  <else>
    <super.ruleRefRuleRootAndListLabel(...)
  <endif>
<<

/* rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrack(...)> 
  <else>
    <super.ruleRefTrack(...)>
  <endif>
<<

/* *+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrackAndListLabel(...)>
  <else>
    <super.ruleRefTrackAndListLabel(...)>
  <endif>
<<

/* *(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRuleRootTrack(...)>
  <else>
    <super.ruleRefRuleRootTrack(...)>
  <endif>
<<

/* *(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
  <else>
```

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**Streams for token refs are tree nodes now; override to change NextToken to NextNode.**

createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
  <if(terminalOptions.node)>
  new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
  <else>
  stream_<token>.NextNode()
  </if>
  <endif>
%>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!ruleDescriptor.isSynPred)>
  <if(!rewriteMode)>
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
  retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
  <if(backtracking)>}<endif>
  <endif>
  <endif>
  <endif>
  >>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg

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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

@genericParser.members() ::= <<
<@super.members()>
private StringTemplateGroup _templateGroup = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer));

public StringTemplateGroup TemplateGroup
{
  get { return _templateGroup; }
  set { _templateGroup = value; }
}
>>

ruleReturnBaseType() ::= <%
Template<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope<StringTemplate, <labelType>>
%>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<rulenRef(...)>
<listLabelElem(elem={<label>.Template},elemType="StringTemplate",...)>
>>

rewriteTemplate(alts) ::= <<
// TEMPLATE REWRITE
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
    <alts:rewriteTemplateAlt(); separator="else "><if(rewriteMode)><replaceTextInLine()><endif>
} <else>
    <alts:rewriteTemplateAlt(); separator="else "><if(rewriteMode)><replaceTextInLine()><endif>
<endif>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.Template);
<else>
    ((TokenRewriteStream)input).Replace(
    retval.Start.TokenIndex,
    input.LT(-1).TokenIndex,
    retval.Template);
<endif>

rewriteTemplateAlt(it) ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>)
{
    retval.Template = <it.alt>;
}<\n>
<else>
{
    retval.Template = <it.alt>;
}<\n>
<endif>

rewriteEmptyTemplate(alts) ::= <<
null;

/** Invoke a template with a set of attribute name/value pairs. *
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name, args) ::= <%
TemplateGroup.GetInstanceOf("<name>"<optionalArguments(args)>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
TemplateGroup.GetInstanceOf(<expr><optionalArguments(args)>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(TemplateGroup, "<template>"<optionalArguments(args)>)
%>

optionalArguments(args) ::= <<
<if(args)>,
new Dictionary<string, object>() { <args:optionalArgument(); separator="", " > }<endif>
>>

optionalArgument(it) ::= <<
["<it.name>", <it.value>]
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
&action
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
((st).SetAttribute("<attrName>",<expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(TemplateGroup,stringExpr)
>>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp3/ST.stg
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 */

@outputFile.imports() ::= <<
<super.imports()>

@if(!TREE_PARSER)>
<! tree parser would already have imported !>
using Antlr.Runtime.Tree;
@endif>
>>

@genericParser.members() ::= <<
<super.members()>
</p>

parserCtorBody() ::= <<%
<super.parserCtorBody()><p>

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TreeAdaptor =
<if(actions.(actionScope).treeAdaptorInitializer)>
<actions.(actionScope).treeAdaptorInitializer>
<else>
new <actions.(actionScope).treeAdaptorType; null="CommonTreeAdaptor">()
<end>
;
%

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
private <treeAdaptorType()> adaptor;

class public <treeAdaptorType()> TreeAdaptor {

get
{
return adaptor;
}

set
{
this.adaptor = value;
<grammar.directDelegates:{g<g:delegateName()> .TreeAdaptor = this.adaptor;}>}
}
}
>>

treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope<<ASTLabelType>, <labelType>>
%

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);\n
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: [\{<ASTLabelType>, <it.label.text> _tree = default(<ASTLabelType>); \}; separator="\n"
<ruleDescriptor.tokenListLabels:{it|<ASTLabelType> <it.label.text> _tree = default(<ASTLabelType>); }]; separator="\n"
When doing auto AST construction, we must define some variables:
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = (<ASTLabelType>)adaptor.Nil();
@endif
@endif
@endif
>>

// Tracking Rule Elements

/* ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>> ! Track implies no auto AST construction!
@if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<
>>

/* ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>>
>>

/* ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
>>

/* Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRootTrack(...)>>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...),
@if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...),
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>;
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...),
@if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...),
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>;
>>

// R e w r i t e
rewriteCode(
    alts, description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedTokenListLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
    rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
    {
        // AST REWRITE
        // elements: <referencedElementsDeep; separator="", "">
        // token labels: <referencedTokenLabels; separator="", "">
        // rule labels: <referencedRuleLabels; separator="", "">
        // token list labels: <referencedTokenListLabels; separator="", "">
        // rule list labels: <referencedRuleListLabels; separator="", "">
        // wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="", "">
        <if(backtracking)>
            
        
    }
if (<actions.(actionScope).synpredgate>) {
    <prevRuleRootRef()>.Tree = root_0;
    <rewriteCodeLabels()>
    root_0 = (<ASTLabelType>) adaptor.Nil();
    <alts:rewriteAlt(); separator="else ">
        <if (TREE_PARSER&&&rewriteMode)>
            <prevRuleRootRef()>.Tree = (<ASTLabelType>) adaptor.RulePostProcessing(root_0);
            if (<prevRuleRootRef()>.Tree != null)
                input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
                        adaptor.GetChildIndex(_last), retval.Tree);
        <endif>
    <else if (TREE_PARSER&&&rewriteMode)>  
        <prevRuleRootRef()>.Tree = (<ASTLabelType>) adaptor.RulePostProcessing(root_0);
        if (<prevRuleRootRef()>.Tree != null)
            input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
                        adaptor.GetChildIndex(_last), retval.Tree);
    <endif>
    <endif>
</rewriteCodeLabels()>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
        RewriteRule<rewriteElementType>Stream(adaptor,"token <it>","<it>");};
    separator="\n"
>
<referencedTokenListLabels
    :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
        RewriteRule<rewriteElementType>Stream(adaptor,"token <it>","list_<it>");};
    separator="\n"
>
<referencedWildcardLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>","<it>");};
    separator="\n"
>
<referencedWildcardListLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>","list_<it>");};
    separator="\n"
>
<referencedRuleLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>","<it>");};
    separator="\n"
>
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/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  if (<referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
  {
    <alt>
  }
  <referencedElementsDeep:{el | stream_<el>.Reset();\n}> >>

rewriteClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
  {
    <alt>
  }
  <referencedElements:{el | stream_<el>.Reset();\n}> >>

rewritePositiveClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
  {
    throw new RewriteEarlyExitException();
  }
  while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )

<referencedRuleListLabels
 ::{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it">,list_<it>);};
  separator="\n"}

> >>

// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
  {
    <alt>
  }
<referencedElementsDeep:{el | stream_<el>.Reset();\n}>
{ 
  <alt>
  }
  <referencedElements:{el | stream_<el>.reset()}> }
}

rewriteAlt(a) ::= <<
  // <a.description>
  <if(a.pred)>
  if (<a.pred>)
  { 
    <a.alt>
  }
  <else>
  { 
    <a.alt>
  }
  <endif>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>:<description>
  {
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  }\n
/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<
  adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<

/*
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[<args>] ...) */
rewriteTokenRefRoot(token,elementIndex,args,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>
rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>
rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>
rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>
>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);
>
>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);
>
>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>
>
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>
>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>
>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>
>
rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>
>
createImaginaryNode(tokenType, args, terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
%>
createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>
adaptor.Create(<token>, <args; separator=", ")
stream_<token>.NextNode()
@end

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 */
/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate _st;
public StringTemplate Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
    get { return this.templateLib; }
    set { this.templateLib = value; }
}

/// \summary> Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...) Add(...)"
/// \</summary>
protected class STAttrMap : Hashtable
{
    public STAttrMap Add(string attrName, object value)
    {
        base.Add(attrName, value);
        return this;
    }
    public STAttrMap Add(string attrName, int value)
    {
        base.Add(attrName, value);
        return this;
    }
}

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(....)>
rewriteTemplate(als) ::= <<
  // TEMPLATE REWRITE
  if (backtracking)
  if ( <actions.(actionScope).synpredgate> )
  {
    <als:rewriteTemplateAlt(); separator="else ">
      <if(rewriteMode)><replaceTextInLine()><endif>
    }
    <else>
    <als:rewriteTemplateAlt(); separator="else ">
      <if(rewriteMode)><replaceTextInLine()><endif>
    <endif>
  }

replaceTextInLine() ::= <<
  // TREE_PARSER
  if (TREE_PARSER)
  ((TokenRewriteStream)input.TokenStream).Replace(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start),
    retval.Template);
  else
  ((TokenRewriteStream)input).Replace(
    ((IToken)retval.Start).TokenIndex,
    input.LT(-1).TokenIndex,
    retval.Template);

rewriteTemplateAlt() ::= <<
  // <it.description>
  if (it.pred)
  if (<it.pred>){
    retval.Template = <it.alt>
  }
  else
  {
    retval.Template = <it.alt>
  }

rewriteEmptyTemplate(als) ::= <<
  null;
>>
/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name, args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
    new STAttrMap(){args:{a | .Add("<a.name>", "<a.value>")}})
<endif>
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
    new STAttrMap(){args:{a | .Add("<a.name>", "<a.value>")}})
<endif>
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
    new STAttrMap(){args:{a | .Add("<a.name>", "<a.value>")}})
<endif>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
    ((<st>).SetAttribute("<attrName>", "<expr>");
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
    new StringTemplate(templateLib, <stringExpr>)
>>

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jar/org/antlr/stringtemplate/language/eval.g
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/stringtemplate/language/action.g
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 */

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set

{  
  <if(grammar.grammarIsRoot)>
  this.adaptor = new DebugTreeAdaptor(dbg, adaptor);
  </else>
  this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
  </endif> 

  <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}> 
  
  <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>>

  parserCtorBody() ::= <<
  <super.parserCtorBody()>
  >>

  createListenerAndHandshake() ::= <<
  DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
  <if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
  DebugListener = proxy;
  <inputStreamType> = new Debug<inputStreamType>( input, proxy );
  try
  {
    proxy.Handshake();
  }
  catch ( IOException ioe )
  {
    ReportError( ioe );
  }
  >>

  @ctorForRootGrammar.finally() ::= <<
  ITreeAdaptor adap = new CommonTreeAdaptor();
  TreeAdaptor = adap;
  proxy.TreeAdaptor = adap;
  >>

  @ctorForProfilingRootGrammar.finally() ::=<<
  ITreeAdaptor adap = new CommonTreeAdaptor();
  TreeAdaptor = adap;
  >>

  @ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"

  @ctorForPredefinedListener.finally() ::=<<
  <if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
  ITreeAdaptor adap = new CommonTreeAdaptor();
  TreeAdaptor = adap;
  </endif>
//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/templates/CSharp2/ASTdbg.stg
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*/
group AST;

@outputFile.imports() ::= <<
  <@super.imports()>
>>

@genericParser.members() ::= <<
  <@super.members()>
  <parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  <!protected TreeAdaptor adaptor = new CommonTreeAdaptor();>
setTreeAdaptor: function(adaptor) {
  this.adaptor = adaptor;
  <grammar.directDelegates:{g|g:delegateName().setTreeAdaptor(this.adaptor);}>
},
getTreeAdaptor: function() {
  return this.adaptor;
},
>>

@returnScope.ruleReturnMembers() ::= <<
getTree: function() { return this.tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  var root_0 = null;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,\"token \<it\>\"\);}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,\"rule \<it\>\"\);}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  <if(!rewriteMode)>
  root_0 = this.adaptor.nil();
  <endif>
  <endif>
  <endif>
>>
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>}
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRule(...)><if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)><listLabel(elem=label,...)>}
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>}
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)><if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)><listLabel(elem=label+".getTree()"...,...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)><if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRootTrack(...>)
  <listLabel(elem=label+.getTree(),...>)
>>

// Rewrite
rewriteCode(
    alts, description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    referencedWildcardLabels,
    rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
    // AST REWRITE
    // elements: <referencedElementsDeep; separator="",">
    // token labels: <referencedTokenLabels; separator="",">
    // rule labels: <referencedRuleLabels; separator="",">
    // token list labels: <referencedTokenListLabels; separator="",">
    // rule list labels: <referencedRuleListLabels; separator="",">
    <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {
    <endif>
    <prevRuleRootRef()>.tree = root_0;
    <rewriteCodeLabels()>
    root_0 = this.adaptor.nil();
    <alts:rewriteAlt(); separator="else ">
    <! if tree parser and rewrite=true !>
    <if(TREE_PARSER)>
    <if(rewriteMode)>
    <prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
    this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
    </if(rewriteMode)>
    <prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
    this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
    </if(TREE_PARSER)>
    <prevRuleRootRef()>.tree = root_0;
    </alts:rewriteAlt(); separator="else ">
    <! if parser or tree-parser && rewrite!=true, we need to set result !>
    <if(!TREE_PARSER)>
    <prevRuleRootRef()>.tree = root_0;
    </if(!TREE_PARSER)>
    </if(TREE_PARSER)>
  <if(!TREE_PARSER)>
  <prevRuleRootRef()>.tree = root_0;
  </if(!TREE_PARSER)>
    } <<
  </prevRuleRootRef()>
  </rewriteCodeLabels()>
  root_0 = this.adaptor.nil();
  <alts:rewriteAlt(); separator="else ">
  <! if tree parser and rewrite=true !>
  <if(TREE_PARSER)>
  <if(rewriteMode)>
  <prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
  this.input.replaceChildren(this.adaptor.getParent(retval.start),
  this.adaptor.getChildIndex(retval.start),
  this.adaptor.getChildIndex(_last),
  retval.tree);
  </if(rewriteMode)>
  <prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
  this.input.replaceChildren(this.adaptor.getParent(retval.start),
  this.adaptor.getChildIndex(retval.start),
  this.adaptor.getChildIndex(_last),
  retval.tree);
  </if(TREE_PARSER)>
  <prevRuleRootRef()>.tree = root_0;
  </if(!TREE_PARSER)>
  </alts:rewriteAlt(); separator="else ">
  <! if parser or tree-parser && rewrite!=true, we need to set result !>
  <if(!TREE_PARSER)>
  <prevRuleRootRef()>.tree = root_0;
  </if(!TREE_PARSER)>
  </if(TREE_PARSER)>
).tree = root_0;

else
if(!rewriteMode)
<prevRuleRootRef()>.tree = root_0;
endif
endif
if(backtracking)
}
endif
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
:{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>",<it>);};
 separator="\n"
>
<referencedTokenListLabels
:{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>", list_<it>);};
 separator="\n"
>
<referencedWildcardLabels
:{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);};
 separator="\n"
>
<referencedWildcardListLabels
:{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",list_<it>);};
 separator="\n"
>
<referencedRuleLabels
:{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",<it>!=null?<it>.tree:NULL);};
 separator="\n"
>
<referencedRuleListLabels
:{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",list_<it>);};
 separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
if ( referencedElementsDeep : {el | stream_<el>.hasNext(); separator="\"\"} ) { 
  <alt>
} 
<referencedElementsDeep: {el | stream_<el>.reset();<\n}> }
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  // <fileName>:<description>
  while ( referencedElements: {el | stream_<el>.hasNext(); separator="\"\"} ) { 
    <alt>
  } 
<referencedElements: {el | stream_<el>.reset();<\n}> }
>>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  // <fileName>:<description>
  if ( !(<referencedElements: {el | stream_<el>.hasNext(); separator="\"\"}> ) ) { 
    throw new org.antlr.runtime.tree.RewriteEarlyExitException();
  } 
  while ( referencedElements: {el | stream_<el>.hasNext(); separator="\"\"} ) { 
    <alt>
  } 
<referencedElements: {el | stream_<el>.reset();<\n}> }
>>

rewriteAlt(a) ::= <<
  // <a.description>
  if(a.pred)
  if (a.pred) {
    <a.alt>
  }<\n>
  <else>
  {
    <a.alt>
  }<\n>
  <endif>
>>
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel> = this.adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
} \n
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<@pregen()><e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>)<\n
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);<\n
>>
rewriteImaginaryTokenRef(args, token, terminalOptions, elementIndex) ::= <<
    this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args, token, terminalOptions, elementIndex) ::= <<
    root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>),
    root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
    root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree?  This
* let's us refer to $rule to mean previous value.  I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites.  The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
    this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
    root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
    this.adaptor.addChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
    root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
    this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
    this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
  root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ... where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
  this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
  <if(terminalOptions.node)>
  <! new MethodNode(IDLabel, args) !>
  new <terminalOptions.node>({<tokenType><if(args)>, <args; separator=", "><endif>})
  <else>
  this.adaptor.create(<tokenType>, <args; separator=", "><if(!args)"<tokenType>"<endif>)
  </else>
  </if>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
  <if(terminalOptions.node)>
  new <terminalOptions.node>(stream_<token>.nextToken(){<if(args)>}, <args; separator=", "><endif>)
  <else>
  <if(args)> <! must create new node from old !>
  this.adaptor.create(<token>, <args; separator=", ">)
  </else>
  stream_<token>.nextNode()
  <endif>
  <endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/JavaScript/AST.stg
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

parserMembers() ::= <<
    DebugTreeAdaptor *adaptor = [DebugTreeAdaptor newTreeAdaptor:id dbg Adaptor:[CommonTreeAdaptor newTreeAdaptor]];

    // fix this
    - (void) setTreeAdaptor:id<TreeAdaptor>() anAdaptor
    {
        adaptor = [DebugTreeAdaptor newTreeAdaptor:dbg Adaptor:anAdaptor];
        <if(grammar.grammarIsRoot)>
            adaptor = [DebugTreeAdaptor newTreeAdaptor:adaptor withDBG:dbg];
        <else>
            adaptor = (DebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
        <endif><

        <grammar.directDelegates:{g|[<g:delegateName()> setTreeAdaptor:adaptor];}>}
    }

- (id<TreeAdaptor>) getTreeAdaptor
    {
        return adaptor;
    }<\n
>>

parserCtorBody() ::= <<
    <super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
    DebugEventSocketProxy proxy =
        [DebugEventSocketProxy newDebugEventSocketProxy:self, port, <if(TREE_PARSER)>[input getTreeAdaptor]<else>adaptor<endif>];
    [self setDebugListener:proxy];
    [self set<inputStreamType>:[Debug<inputStreamType> newDebug<inputStreamType>:input with:proxy]];
    try {
        [proxy handshake];
    } @catch (IOException *ioe) {
        [self reportError:ioe];
    }
>>

@ctorForRootGrammar.finally() ::= <<
    CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
    [self setTreeAdaptor:adap];
    [proxy setTreeAdaptor:adap];
>>
@ctorForProfilingRootGrammar.finally() ::= <<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForPredefinedListener.superClassRef() ::= @"super(input, dbg);"

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
<endif>
>>

@treeParserHeaderFile.superClassName ::= "DebugTreeParser"

@rewriteElement.pregen() ::= @"[debugListener locationLine:<e.line> column:<e.pos>];"
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*/

/** Templates for building ASTs during normal parsing. *
 * Deal with many combinations. Dimensions are: *
 * Auto build or rewrite *
 * no label, label, list label  (label/no-label handled together) *
 * child, root *
 * token, set, rule, wildcard *
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and ! *
 * invalid. There is no huge explosion of combinations. *
 */

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (state.backtracking == 0) {<endif>
<label>_tree = <createNodeFromToken(...)>
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
</if(backtracking)>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRootRule(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
</if(backtracking)>
>>
/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<labelListLabelElem(elem=label,elemType=labelType,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<labelListLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<labelListLabelElem(elem=label,elemType=labelType,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroott code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}, ...)>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<if(label)>

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<label>_tree = (<labelType>)adaptor.Create(<label>);

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)";

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 = (<labelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)
  <listLabelElem(elem=<label>.Tree),elemType=ASTLabelType,...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)
  <listLabelElem(elem=<label>.Tree),elemType=ASTLabelType,...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)
  <listLabelElem(elem=<label>.Tree),elemType=ASTLabelType,...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  <wildcard(...)
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) {} <endif>
  <label>_tree = (<labelType>)adaptor.Create(<label>);
adapter.AddChild(root_0, <label>_tree);
<if(backtracking)> } <endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(token=[],...)>"

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)> } <endif>
>>

createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node>({if(terminalOptions.type)},<terminalOptions.type>,<label><if(terminalOptions.text)>,<terminalOptions.text; format=\"string\"> <endif>)
<else>
(<ASTLabelType>)adaptor.Create(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format=\"string\"> <endif>)
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)> } <endif>
>>

Found in path(s):
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg
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/** How to generate rules derived from left-recursive rules.  */
/* These rely on recRuleDefArg(), recRuleAltPredicate(), recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()  */
/* templates in main language.stg */

group LeftRecursiveRules;

recRuleName(ruleName) ::= "<ruleName>_"
recPrimaryName(ruleName) ::= "<ruleName>_primary"

recRuleStart(ruleName, minPrec, userRetvals, userRetvalAssignments) ::= 
    <ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
    : <recRuleName(...)>[<minPrec>]
    <if(userRetvals)>
     {<userRetvalAssignments; separator="\n">}
    <endif>
    :
    >>

recRule(ruleName, precArgDef, argName, alts, setResultAction, buildAST, 
    userRetvals, userRetvalAssignments) ::= 
    <recRuleName(...)>[<precArgDef>] <if(userRetvals)> returns [<userRetvals>] <endif>
    : <recPrimaryName(...)>
    <if(buildAST)>
     {<setResultAction>}
    <endif>
recPrimaryRule(ruleName, alts, userRetvals) ::= <<
<recPrimaryName(...)><if(userRetvals)> returns [<userRetvals>]<endif>
options {backtrack=true;}
  : <alts; separator="\n | ">
>
;
>>

recRuleAlt(alt, pred) ::= "{<pred>}?=> <alt>"

recRuleRef(ruleName, arg) ::= "<recRuleName(...)>[<arg>]"

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexerTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionEvaluator.java
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionParser.java
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AnsiColorTemplateLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AnsiColorTemplateLexerTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AnsiColorTemplateParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AnsiColorTemplateParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AnsiColorTemplateTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ANLTemplateLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ANLTemplateLexerTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ANLTemplateParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ANLTemplateParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ANLTemplateTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexerTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/GroupLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/GroupParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/InterfaceLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/InterfaceParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/InterfaceParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/TemplateLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/TemplateParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/TemplateParserTokenTypes.java
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ANTLR's code generator.

Generate recognizers derived from grammars. Language independence achieved through the use of STGroup objects. All output strings are completely encapsulated in the group files such as Java.stg. Some computations are done that are unused by a particular language. This generator just computes and sets the values into the templates; the templates are free to use or not use the information.

To make a new code generation target, define X.stg for language X by copying from existing Y.stg most closely releated to your language; e.g., to do CSharp.stg copy Java.stg. The template group file has a bunch of templates that are needed by the code generator. You can add a new target w/o even recompiling ANTLR itself. The language=X option in a grammar file dictates which templates get loaded/used.

Some language like C need both parser files and header files. Java needs to have a separate file for the cyclic DFA as ANTLR generates bytecodes directly (which cannot be in the generated parser Java file). To facilitate this, cyclic can be in same file, but header, output must be searpate. recognizer is in outpufile.
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 */

@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)>
<! tree parser would already have imported !>
using Antlr.Runtime.Tree;
<endif>
>>

@genericParser.members() ::= <<
@super.members()
<parserMembers()>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
<treeAdaptorType()> treeAdaptor = default(<treeAdaptorType()>);
CreateTreeAdaptor(ref treeAdaptor);
TreeAdaptor = treeAdaptor<if(!actions.(actionScope).treeAdaptorType)> ?? new CommonTreeAdaptor()<endif>;
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void CreateTreeAdaptor(ref <treeAdaptorType()> adaptor);

private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
get
{
return adaptor;
}

set
{
this.adaptor = value;
<grammar.directDelegates:{g|<g:delegateName()> TreeAdaptor = this.adaptor;}>
}
}
>>

treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <%
/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST && outerAlt && !rewriteMode && !ruleDescriptor.isSynPred)
root_0 = (<ASTLabelType>)adaptor.Nil();
@endif
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
@if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
@endif
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<<
listLabelElem(elem=label,elemType=labelType,...)
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
@if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<

<<
listLabelElem(elem=label,elemType=labelType,...)
>>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(…)>
<if(backtracking)>if (⟨actions.(actionScope).synpredgate⟩) </if>stream_⟨rule.name⟩.Add(⟨label⟩.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(…)>
<listLabelElem(elem=⟨label⟩.Tree,elemType=ASTLabelType,…)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(…)>
<if(backtracking)>if (⟨actions.(actionScope).synpredgate⟩) </if>stream_⟨rule⟩.Add(⟨label⟩.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(…)>
<listLabelElem(elem=⟨label⟩.Tree,elemType=ASTLabelType,…)>
>>

// Rewrite
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleListLabels, referencedRuleLabels,
referencedWildcardListLabels, referencedWildcardLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<un>]
// AST REWRITE
// elements: <referencedElementsDeep; separator="", " >
// token labels: <referencedTokenLabels; separator="", " >
// rule labels: <referencedRuleLabels; separator="", " >
// token list labels: <referencedRuleListLabels; separator="", " >
// rule list labels: <referencedRuleListLabels; separator="", " >
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="", " >
if (<actions.(actionScope).synpredgate>) {
<endif>
<prevRuleRootRef>().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>) adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if<TREE_PARSER&&rewriteMode>><prevRuleRootRef>().Tree = (<ASTLabelType>) adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef>().Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start), adaptor.GetChildIndex(_last), retval.Tree);
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER&&!rewriteMode>><prevRuleRootRef>().Tree = root_0;
<endif>
<if(backtracking)>}
<endif>
}

rewriteCodeLabels() ::= <<
<referencedTokenLabels :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);}; separator="\n" >
<referencedTokenListLabels :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);}; separator="\n" >
<referencedWildcardLabels :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);}; separator="\n" >
<referencedWildcardListLabels :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>", list_<it>);}; separator="\n" >
<referencedRuleLabels :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>",<it>!=null?<it>.Tree:null);}; separator="\n" >
/** Generate code for an optional rewrite block; note it uses the deep ref'd element * list rather shallow like other blocks. */
rewriteOptionalBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  // <fileName>:<description>
  if (<referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
  {<alt>}
  }
  <referencedElementsDeep:{el | stream_<el>.Reset();<\n>}> >>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  // <fileName>:<description>
  while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
  {<alt>}
  }
  <referencedElements:{el | stream_<el>.Reset();<\n>}> >>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
  {throw new RewriteEarlyExitException();}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();}
>

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>)
{
<a.alt>
}
@else
{
<a.alt>
}
@endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}@n
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <@
pregen()
DebugLocation(<e.line>, <e.pos>);<n>
<e.el>
@%

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,args,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());
>>
rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
  adaptor.AddChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

createImaginaryNode(tokenType,args,terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  ! new MethodNode(IDLabel, args) !>
  new <terminalOptions.node>({<tokenType><if(args)>, <args; separator=", "><endif>
  <else>
  (<ASTLabelType>)adaptor.Create(<tokenType>, {<args; separator=", "><if(!args)"><endif>
  <endif>
  %>

createRewriteNodeFromElement(token,args,terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  new <terminalOptions.node>({stream_<token>.NextToken(<if(args)>, <args; separator=", "><endif>
  %>

/* Open Source Used In Crosswork Common EMS Services 4.0.0 8329 */
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator="", ")
<else>
stream_<token>.NextNode()
<endif>
<endif>
%

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/templates/CSharp3/AST.stg
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/stringtemplate/v4/STErrorListener.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/stringtemplate/v4/misc/ObjectModelAdaptor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/ErrorBuffer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/Aggregate.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STGroupCompiletimeMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/Misc.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/gui/JTreeSTModel.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/StringRenderer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/Interval.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/debug/EvalExprEvent.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/NoIndentWriter.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/gui/JTreeASTModel.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/ErrorManager.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/instance/Bytecode.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/debug/EvalTemplateEvent.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4>DateRenderer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/InstanceScope.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/ArrayIterator.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/MapModelAdaptor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/ModelAdaptor.java
*/
/**
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

javaTypeInitMap ::= [
  "int": "0",
]
"long":"0",
"float":"0.0f",
"double":"0.0",
"boolean":"false",
"byte":"0",
"short":"0",
"char":"0",
default:"null" // anything other than an atomic type
]

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
"True":"true",
"False":"false",
"true":"true",
"false":"false",
default:"false"
]

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= <<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

%@imports
import org.antlr.runtime.*;
@if(TREE_PARSER)
import org.antlr.runtime.tree.*;
@endif
import java.util.Stack;
import java.util.List;
import java.util.ArrayList;
@if(backtracking)
import java.util.Map;
import java.util.HashMap;
@endif
import java.util.Map;
import java.util.HashMap;
</@end>
lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken", superclass="Lexer") ::= <<

public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {

    <tokens:{it | public static final int <it.name>=<it.type>;}; separator="\n">
    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif> }>
    <actions.lexer.members>

    // delegates
    <grammar.delegates>
    {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators>
    {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>
    public <superClass>[] getDelegates() {
        return new <superClass>[] {<grammar.delegates: {g|<g:delegateName()>}; separator = ", ">};
    }

    public <grammar.recognizerName>() {} <! needed by subclasses !>
    public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
    public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName><g:delegateName()>}>)
    super(input, state);
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new HashMap[numRules]+1;<\n><! index from 1..n !>
    <endif>
    <endif>
    <grammar.directDelegates>
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>,this);}; separator="\n">
    <grammar.delegators>
    {g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}>}
    @Override public String getGrammarFileName() { return "<fileName>; }
    </grammar.delegators>
    <filteringNextToken()>

    @SuppressWarnings("all")
    <recognizer>

    >>
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
@Override
public Token nextToken() {
while (true) {
if ( input.LA(1)==CharStream.EOF ) {
Token eof = new CommonToken(input,Token.EOF,
Token.DEFAULT_CHANNEL,
input.index(),input.index());
eof.setLine(getLine());
eof.setCharPositionInLine(getCharPositionInLine());
return eof;
}
state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.index();
state.tokenStartCharPositionInLine = input.getCharPositionInLine();
state.tokenStartLine = input.getLine();
state.text = null;
try {
int m = input.mark();
state.backtracking=1; <! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if ( state.failed ) {
input.rewind(m);
input.consume(); <! advance one char and try again !>
}
else {
    emit();
    return state.token;
}

try {
}

catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}

@Override
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

@Override
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="Object") ::= <<
    public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
    <if(grammar.grammarIsRoot)>
        public static final String[] tokenNames = new String[] {
            "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ", wrap="\n\t"">
        };
    </endif>
    <tokens:{it |public static final int <it.name>=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates: {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
return new <superClass>[] {<grammar.delegates: {g|<g:delegateName()>}; separator = ", "};
}

// delegators
<grammar.delegates:
{g|public <g.recognizerName> <g:delegateName>();}; separator="\n"}  
<last(grammar.delegates):{g|public <g.recognizerName> gParent;}>  

<scopes:{it |<if(it.isDynamicGlobalScope)> <globalAttributeScope(it)> <endif>}>  

}@members
  
<@WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>(<inputStreamType> input<grammar.delegates:{g|, <g.recognizerName> <g:delegateName()>}>)  
{this(input, new RecognizerSharedState()<grammar.delegates:{g|, <g.recognizerName> <g:delegateName()>}>);  
}  
public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState  
state<grammar.delegates:{g|, <g.recognizerName> <g:delegateName()>}>)  
{super(input, state);  
<parserCtorBody()>  
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>},  
this);}; separator="\n"}  
<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}  
separator="\n"}  
<last(grammar.delegates):{g|gParent = <g:delegateName>();}>  
}  
}@end  

@Override public String[] getTokenNames() { return  
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }  
@Override public String getGrammarFileName() { return "<fileName>"; }  

@members

@rules; separator="\n\n"
<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">!
<dfa<hr>dump tables for all DFA !>
</dfa>

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=it.bits)}>}; separator="\n">!

<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">!

<grammar.grammarIsRoot>
this.state.ruleMemo = new HashMap[length(grammar.allImportedRules)+1];
<! index from 1..n !>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">!

/parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new HashMap[length(grammar.allImportedRules)+1];
<! index from 1..n !>
</if>
</if>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">!

/parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
  ASTLabelType="Object", superClass="Parser", labelType="Token",
  members={ <actions.parser.members> }) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, "TokenStream", superClass,
  labelType, members, "Token",
  false, ASTLabelType)>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
  numRules, bitsets, filterMode, labelType={ <ASTLabelType> }, ASTLabelType="Object",
  superClass={ <if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif> },
  members={ <actions.treeparser.members> }
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, "TreeNodeStream", superClass,
  labelType, members, "Node",
  filterMode, ASTLabelType)>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
/*
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
// $ANTLR start <ruleName>
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>) throws
<ruleDescriptor.throwsSpec:{x|<x>}; separator="","> {
<ruleLabelDefs()>
@if(trace)>
traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
try {
<block>
}
finally {
traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
}
<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {
state.backtracking++;
<@start()> 
int start = input.mark();
try {
<name>_fragment(); // can never throw exception
} catch (RecognitionException re) {
System.err.println("impossible: "+re);
}
boolean success = !state.failed;
input.rewind(start);
<@stop()> 
state.backtracking--;
state.failed=false;
return success;
}
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)>
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) {


** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) <returnStatement(({<ruleReturnValue()>}))><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) {state.failed=true;
<returnStatement(({<ruleReturnValue()>}))})<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
<if(isPredefinedRewriteRule.(ruleName) && filterMode && buildAST)>
@Override
<endif>
public final <returnType(ruleDescriptor)> <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>) throws
<ruleDescriptor.throwsSpec:{x|<x>}; separator=", ">
{<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try {
<ruleMemoization(name=ruleName)>
[block]
<ruleCleanUp()>
<@ruleDescriptor.actions.after:execAction()>}
} <if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><n>}> <else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
    <@setErrorReturnValue()>
    }
@enddef
@enddef
@enddef
finally {
// do for sure before leaving
@if(trace)traceOut("<ruleName>",<ruleDescriptor.index>);@endif
@memento()
@ruleScopeCleanUp()
@finally
@if(trace)traceOut("<ruleName>");@endif
@endpostamble()
<returnStatement((<{ruleReturnValue}>)false)>}
} // $ANTLR end "<ruleName>" >>

returnStatement(returnValue, force=true) ::= <%
@if(!isEmptyString.(returnValue))
return returnValue;
elseif(force)
return;
@endif
%>
catch(decl,action) ::= <<
catch (<e.decl>) {
<e.action>
}>
ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
<returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
retval.start = input.LT(1);
@endif
@if(memoize)
int <ruleDescriptor.name>_StartIndex = input.index();
@endif
>>
ruleScopeSetUp() ::= <<
  <ruleDescriptor.useScopes:{it |<it>_stack.push(new <it>_scope());}; separator="\n">
  <ruleDescriptor.ruleScope:{it |<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
  <ruleDescriptor.useScopes:{it |<it>_stack.pop();}; separator="\n">
  <ruleDescriptor.ruleScope:{it |<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
  <[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
    ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
  :{it |<labelType> <it.label.text>=null;}; separator="\n">
  <[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
  :{it |List<Object> list_<it.label.text>=null;}; separator="\n">
  <ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
  <ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
  <[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
    ruleDescriptor.ruleLabels]
  :{it |<labelType> <it.label.text>=null;}; separator="\n">
  <ruleDescriptor.charLabels:{it |int <it.label.text>;}; separator="\n">
  <[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
  :{it |List<Object> list_<it.label.text>=null;}; separator="\n">
  <ruleDescriptor.ruleListLabels]
  :{it |List<Object> list_<it.label.text>=null;}; separator="\n">
  >
  >
  >
ruleReturnValue() ::= <%
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
    retval
  <else>
    retval
  <endif>
  <endif>
  <endif>
  %>
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<TREE_PARSER>
retval.stop = input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>) throws RecognitionException
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
// do for sure before leaving
/** How to generate code for the implicitly-defined lexer grammar rule 
  * that chooses between lexer rules.
  */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@Override
public void mTokens() throws RecognitionException {
<block>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) { 
<alts:{a | <altSwitchCase(i,a)>}
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) { 
<alts:{a | <altSwitchCase(i,a)>}
}
>>
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
  <@preloop()>
loop<decisionNumber>:
  while (true) {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
      <alts:{a | <altSwitchCase(i,a)>>}
      default :
        if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
        <ruleBacktrackFailure()>
        EarlyExitException eee = new EarlyExitException(<decisionNumber>, input);
        <@earlyExitException()>
        throw eee;
    }
    cnt<decisionNumber>++;
  }
  <@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>::<description>
<decls>
}@preloop() loop<decisionNumber>:
while (true) {
int alt<decisionNumber> =<maxAlt>;
}@predecision() decision
}@postdecision() switch (alt<decisionNumber>) {
alts:{a | <altSwitchCase(i,a)>}
default :
break loop<decisionNumber>;
}
}@postloop() >>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
* number. A DFA predicts the alternative and then a simple switch *
* does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
case <altNum> :
}@prealt() alt
break;\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>::<description>
{
}@declarations() elements:element()
rew
}@cleanup()>
}
/** What to emit when there is no rewrite. For auto build mode, does nothing. */

noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
  <@prematch()>
  <e.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  <if(label)><label>=(<labelType>)<endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex >); <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRef(token,label,elementIndex,terminalOptions)>
  <listLabel(label, label)>
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  <endif>
  match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = input.LA(1);
  <endif>
  matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
  <if(label)>
  <if(!LEXER)>
  <label>= input.LA(1);
  <else>
  <label>=<castToLabelType("input.LT(1)")>;
  <endif>
  </if>
  if ( <s> ) {
    input.consume();
    <postmatchCode>
    <if(!LEXER)>
    state.errorRecovery=false;
    <endif>
    <if(!backtracking)>state.failed=false;</if>
  } else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
    <if(!LEXER)>
    recover(mse);
    throw mse;
    <else>
    throw mse;
    <!-- use following code to make it recover inline; remove throw mse; recoveringFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>); !>
    </if>
  }
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  int <label>Start = getCharIndex();
  match(<string>); <checkRuleBacktrackFailure()>
  int <label>StartLine<elementIndex> = getLine();
  int <label>StartCharPos<elementIndex> = getCharPositionInLine();
  <label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
macth(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)>
<label>==<castToLabelType("input.LT(1)")>;
<endif>
macthAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
<wildcard(...)>}
</listLabel(label, label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
macthAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
</listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule.label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>in_<ruleName><elementIndex>);
<if(label)> <label>==<endif><if(scope)> <scope:delegateName()> <endif> <rule.name>(<args; separator=", ");
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/** A lexer rule reference.
* 
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>
// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= ".p"
recRuleAltPredicate(ruleName,opPrec) ::= ",<recRuleArg() \< opPrec>
recRuleSetResultAction() ::= "root_0=<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
        match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    } <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
    if ( !(<evalPredicate(pred,description)>)) {
        <ruleBacktrackFailure()>}
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
} >>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
    <edges; separator="|else ">
    <if(!isTrue.(last(edges).labelExpr)) \&\& (!last(edges).predicates))>
    else {
    <if(eotPredictsAlt)>
    alt<decisionNumber>==<eotPredictsAlt>;
    <else>
    <ruleBacktrackFailure()> 
    <(nvaExceptionWrapperMap.(k))(NoViableAltException nvae =

---

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new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()>
throw nva;})>
<endif>
}
<endif>
>>

nvaExceptionWrapperMap ::= [
"1":"wrapNvaExceptionForK1",
"2":"wrapNvaExceptionForK2",
default:"wrapNvaExceptionForKN"
]

wrapNvaExceptionForK1(exceptionCode) ::= <<
<exceptionCode>
>>

wrapNvaExceptionForK2(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
<exceptionCode>
} finally {
input.rewind(nvaeMark);
}
>>

wrapNvaExceptionForKN(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
for (int nvaeConsume = 0; nvaeConsume \< <k> - 1; nvaeConsume++) {
input.consume();
}
<exceptionCode>
} finally {
input.rewind(nvaeMark);
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for (\texttt{a})* on the end of a rule
 * anything other than \texttt{a} predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
alt<decisionNumber>=<eotPredictsAlt>;
}
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
<targetState>
}
>>

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\ndefault:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<nvaExceptionWrapperMap.(k))(\{NoViableAltException nvae =
new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
@@noViableAltException()>
throw nvae;})>
<endif>
}
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
}
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
@if(eotPredictsAlt)
default: altheotPredictsAlt; break;
@endif>
}
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n">
{
targetState>
break;
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this

* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS = 
"<dfa.javaCompressedEOT; wrap="\"+\n\t\">";
static final String DFA<dfa.decisionNumber>_eofS = 
"<dfa.javaCompressedEOF; wrap="\"+\n\t\">";
static final String DFA<dfa.decisionNumber>_minS = 
"<dfa.javaCompressedMin; wrap="\"+\n\t\">";
static final String DFA<dfa.decisionNumber>_maxS = 
"<dfa.javaCompressedMax; wrap="\"+\n\t\">";
static final String DFA<dfa.decisionNumber>_acceptS = 
"<dfa.javaCompressedAccept; wrap="\"+\n\t\">";
static final String DFA<dfa.decisionNumber>_specialS = 
"<dfa.javaCompressedSpecial; wrap="\"+\n\t\">";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
<dfa.javaCompressedTransition:{s|"<s; wrap="\"+\n"}>"; separator="\",\n"}>
};
static final short[] DFA<dfa.decisionNumber>_eot = 
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof = 
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min = 
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max = 
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept = 
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special = 
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;
static {
int numStates = DFA<dfa.decisionNumber>_transitionS.length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for (int i=0; i<numStates; i++) {
DFA<dfa.decisionNumber>_transition[i] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}
protected class DFA<dfa.decisionNumber> extends DFA {

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
}
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}
@Override
public String getDescription() {
    return "<dfa.description>";
}
}@errorMethod()
@if(dfa.specialStateSTs)
@Override
public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
    IntStream input = _input;
    @endif
    @if(LEXER)
    TokenStream input = (TokenStream)_input;
    @endif
    @if(PARSER)
    TreeNodeStream input = (TreeNodeStream)_input;
    @endif
    int _s = s;
    switch ( s ) {
      @dfa.specialStateSTs:{state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
      <state>}; separator="\n"}
    @if(backtracking)
      if (state.backtracking>0) {state.failed=true; return -1;}
    @endif
    NoViableAltException nvae =
    new NoViableAltException(getDescription(), <dfa.decisionNumber>._s, input);
    error(nvae);
    throw nvae;
    @endif
    }
    @endif
    }
  }
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = input.LA(1);
    @if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
    int LA<decisionNumber>_<stateNumber> = input.LA(1);
    <if(semPredState)>
    </if>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();
<endif>
s = -1;
<edges: separator="\nelse">
<if(semPredState)> ! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);
<endif>
if ( s==0 ) return s;
break;
>>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs...
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >= <lower> && input.LA(<k>) \leq <upper>)"

setTest(ranges) ::= <<
  <ranges; separator="||">
>>

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  protected static class <scope.name>_scope {
  <scope.attributes:{it |<it.decl>;}; separator="\n">}
  protected Stack\<<scope.name>_scope> <scope.name>_stack = new Stack\<<scope.name>_scope>();
  <endif>
>>

ruleAttributeScope(scope) ::= <<
  <if(scope)>
  <if(scope.attributes)>
  protected static class <scope.name>_scope {
  <scope.attributes:{it |<it.decl>;}; separator="\n">}
  protected Stack\<<scope.name>_scope> <scope.name>_stack = new Stack\<<scope.name>_scope>();
  <endif>
  <endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType(ruleDescriptor) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>.
  <elseif(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  %>

/** Generate the Java type associated with a single or multiple return
 *  values.
 */
ruleLabelType(referencedRule) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
}
delegateName(d) ::= <<
  <if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
  javaTypeInitMap.(typeName)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
  <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;%
%

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMoreReturnValues)
  public static class <ruleDescriptor:returnStructName()> extends <returnScopeBaseType()> {
    <if(scope)><scope.attributes:{it |public <it.decl>;}; separator="\n"><<endif>
    <@ruleReturnMembers()>
  };
  <endif>
>>

returnScopeBaseType() ::= <%
  <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope%
%

parameterScope(scope) ::= <<
  <scope.attributes:{it [it.decl]}; separator="",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"
scopeAttributeRef(scope, attr, index, negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name>
  <else>
  <if(index)>
  <scope>_stack.elementAt(<index>).<attr.name>
  <else>
  <scope>_stack.peek().<attr.name>
  <endif>
  <endif>
  %>

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name> =<expr>; 
  <else>
  <if(index)>
  <scope>_stack.elementAt(<index>).<attr.name> =<expr>; 
  <else>
  <scope>_stack.peek().<attr.name> =<expr>; 
  <endif>
  <endif>
  %>

/** x is either global scope or x is rule with dynamic scope; refers
 *  to stack itself not top of stack.  This is useful for predicates
 *  like {$function.size()>0 && $function::name.equals("foo")}? 
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  (<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name>:<initValue(attr.type)>)
  <else>
  <scope>
  <endif>
  %>

returnAttributeRef(ruleDescriptor, attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  <attr.name>
  <endif>
  %>
returnSetAttributeRef(ruleDescriptor, attr.expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> =<expr>;
  <else>
    <attr.name> =<expr>;
  <endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.getType():0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!=null?<scope>.getLine():0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!=null?(<castToLabelType({<scope>.start})>):null)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!=null?(<castToLabelType({<scope>.stop})>):null)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!=null?((<ASTLabelType>)<scope>.getTree()):null)"
ruleLabelPropertyRef_text(scope, attr) ::= <%
  <if(TREE_PARSER)>
    ((<scope>!=null?input.getTokenStream().toString(
      input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
      input.getTreeAdaptor().getTokenStopIndex(<scope>.start))):null)
  <else>
    (<scope>!=null?input.toString(<scope>.start,<scope>.stop):null)
  <endif>
%
ruleLabelPropertyRef_st(scope, attr) ::= "(<scope>!=null?((StringTemplate)<scope>.getTemplate()):null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope, attr) ::= "(<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.getText():null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<castToLabelType("retval.start")>)"
rulePropertyRef_stop(scope,attr) ::= "(<castToLabelType("retval.stop")>)"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <%
<input.getTokenStream().toString(
 input.getTreeAdaptor().getTokenStartIndex(retval.start),
 input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
 input.toString(retval.start,input.LT(-1))
<endif>
%>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {
      <action>
    }
  <else>
    <%
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[]{<words64:{it |<it>L};separator=",">});
>>

codeFileExtension() ::= ".java"

true_value() ::= "true"
false_value() ::= "false"

isEmptyString ::= [
"": true,
default : false
]

isTrue ::= [
"true" : true,
default : false
]

isDefaultLabelType ::= [
"Token" : true,
default : false
]

isPredefinedRewriteRule ::= [
"topdown" : true,
"bottomup" : true,
default : false
]

castToLabelType(value) ::= <%
<if(!isDefaultLabelType.(labelType))>
(<labelType>)
<endif>
/values
%>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match an ST group interface. Just a list of template names with args.
* Here is a sample interface file:
*
*interface nfa;
*nfa(states,edges);
*optional state(name);
*/
class InterfaceParser extends Parser;

options {
   k=3;
}
protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
  if (groupI!=null) {
    groupI.error("template group interface parse error", e);
  }
  else {
    System.err.println("template group interface parse error: "+e);
    e.printStackTrace(System.err);
  }
}

groupInterface[StringTemplateGroupInterface groupI]
{this.groupI = groupI;}
:"interface” name:ID {groupI.setName(name.getText());} SEMI
  ( template[groupI ]+ ;

template[StringTemplateGroupInterface groupI]
{
  LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
  String templateName=null;
}
:(opt:’optional’)? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
  { 
    templateName = name.getText();
    groupI.defineTemplate(templateName, formalArgs, opt!=null);
  }
;

class InterfaceLexer extends Lexer;

options {
  k=2;
  charVocabulary = \u0000..\uFFFE;
}

ID:([a..z][A..Z][_]*) ([a..z][A..Z][0..9][_]*)* ;
LPAREN: '(';
RPAREN: ')';
COMMA: ',';
SEMI: ';';
COLON: ':';

// Single-line comments
SL_COMMENT
  : "//" "(" (~('n'|'\r'))* (\n)? 'n'?
    {$setType(Token.SKIP); newline(); } 
    ;

// multiple-line comments
ML_COMMENT
  : "/*"
    ( options {
        greedy=false;
    }
    : ('n')? 'n' { newline(); } |
    )*
    "*/"
    {$setType(Token.SKIP); } 
    ;

// Whitespace -- ignored
WS  :   (   ' ' |   '	' |   '' |   (\r)? 'n' { newline(); } |
    )+ {$setType(Token.SKIP); }
    ;

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/*
 * package org.antlr.stringtemplate.language;
 * import org.antlr.stringtemplate.*;
 * import java.io.*;
 */

/** Break up an input text stream into chunks of either plain text
 * or template actions in "<...>". Treat IF and ENDIF tokens specially.
 */
class AngleBracketTemplateLexer extends Lexer;

options {
    importVocab=TemplateParser;
    k=7; // see "<endif>"
    charVocabulary = '\u0001'..'uFFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}
public void reportError(RecognitionException e) {
    self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)==='<'&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
            LA(i+5)==='>';  
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)==='<'&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
            LA(i+5)=='f'&&LA(i+6)==='>';  
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)==='<'&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)==='>';  
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';  
}

LITERAL
    :   {LA(1)!=''&&LA(1)!='
'}?
        ( options { generateAmbigWarnings=false; }  
            {int loopStartIndex=text.length();
             int col=getColumn();
             }
            :   '\'! '<'  // allow escaped delimiter
                |   '\'! '>'
                |   '\'! '\' // always replace \ with \ 
                |   '\' ~('<'|'>')   // otherwise ignore escape char
                |   ind:INDENT
                
                
                }
        if ( getText().length()==0 ) { setType(Token.SKIP); } // pure indent?
    |   ~('<'|''|'
')+
    ;
protected
INDENT
   : ( options {greedy=true;} : ' ' | '	')+
   ;

NEWLINE
   : ('\r')? '\n' {newline(); currentIndent=null;}
   ;

ACTION
   options {
      generateAmbigWarnings=false; // <EXPR> is ambig with <!..!>
   }
   |
      int startCol = getColumn();
      |
      : LINE_BREAK {setType(Token.SKIP);} // Match escapes not in a string like <\u0000>
   |
      [StringBuffer buf = new StringBuffer(); char uc = '\u0000';]
      '<'! (uc=ESC_CHAR {buf.append(uc); })* '>'!
      {setText(buf.toString()); setType(LITERAL);} // ignore any newline right after an IF
   |
      COMMENT    {setType(Token.SKIP);} |
      ( |
         options {
            generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
        }
      : '<'! "if" ('!'*) "(" IF_EXPR ")" ">"! {setType(TemplateParser.IF);}
         ( '(\r')? '\n'! (newline();)? // ignore any newline right after an IF
      |
         '<'! "elseif" ('!'*) "(" IF_EXPR ")" ">"! {setType(TemplateParser.ELSEIF);}
         ( '(\r')? '\n'! (newline();)? // ignore any newline right after an IF
      |
         '<'! "else" ">"! {setType(TemplateParser.ELSE);} // ignore any newline right after an ELSE
      |
         '<'! "endif" ">"! {setType(TemplateParser.ENDIF);}
         ( [startCol==1]? (\r')? '\n'! (newline();))? // ignore after ENDIF if on line by itself
      |
      // match <@foo()> => foo
      // match <@foo>...<@end> => foo:==...
      ✓'<!' '"!' (~('>'|'(')))+
      ("!” ">"! {setType(TemplateParser.REGION_REF);}
      |
      '!”
      |
      $setType(TemplateParser.REGION_DEF);
      String t=$getText;
      $setText(t+"":=");
      |
      ( options {greedy=true;} : (\r')? '\n'! (newline();))? [boolean atLeft = false;]
      (}
options {greedy=true;} // handle greedy=false with predicate
{:(![(upcomingAtEND(1) || upcomingNewline(1) && upcomingAtEND(2))])

((v')? \n {newline(); atLeft = true;}
{atLeft = false;}}+
((v')? \n! {newline(); atLeft = true;})?
"<@end>"!
{self.error("missing region "+t+" <@end> tag");}

{atLeft}? (v')? \n! {newline();})?

|-- '<'! EXPR '>
)
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protected
ESC_CHAR returns [char uc='\u0000']
: "\n"! {uc = '\n';}
| "\r"! {uc = '\r';}
| "\t"! {uc = '\t';}
| "\ "! {uc = ' ';
| "\u" a:HEX! b:HEX! c:HEX! d:HEX!
{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}
;

// just used to skip stuff (not part of unicode escape stuff)
protected
ESC : '\'. // ('<'|'>'|'n'|'t'|'"'|'\'|':|'{|'}'|'\')
;

protected
HEX: '0..'9'|'A'..'F'|a..'f
;

protected
SUBTEMPLATE
: '{' (SUBTEMPLATE|ESC|~'}')* '}'
;

protected
NESTED_PARENS
: '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')
;

protected
COMMENT
{
  int startCol = getColumn();
}
  "<!" (options {greedy=false;}
      :"\u'? \n' {newline();}
    |.
  )*
  "!>" ( {startCol==1}? "\u'? \n' {newline();} )?
;
protected

```java
LINE_BREAK
    :    "<\<!\!?\n" (INDENT)? ('\r')? 'un' {newline();} (INDENT)?
    ;

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/angle.bracket.template.g
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*/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label  (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations. */

finishedBacktracking(block) ::= <<
<if(!ruleDescriptor.isSynPred)
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <block>
 <else>
 <block>
 <endif>
<endif>
>>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)
<finishedBacktracking(
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking(
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<htmlLabel(elem=label,...)
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)> >>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)> >>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>)})}>), ...}> %>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B)...|C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)\n
<endif>
<super.matchSet(postmatchCode={ <finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}>), ...})>
>>

// RULE REF AST
/** rule when output=AST */
ruleRefRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)> 
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})> >>

/** rule! is same as normal rule ref */
ruleRefRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)> 
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})> >>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...) >
<listLabel(label, {<label>.tree})> >>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...) >
<listLabel(label, {<label>.tree})> >>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...) >
<listLabel(label, {<label>.tree})> >>

// WILDCARD AST
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...) >
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)"

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...) >
<finishedBacktracking({

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createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
</endif>
%

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>
>>

Found in path(s):
*/ opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python/ASTParser.stg
No license file was found, but licenses were detected in source scan.

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NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
    @super.imports()
    import stringtemplate3
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnInit() ::= <<
    self.st = None
>>

@returnScope.ruleReturnMembers() ::= <<
    def getTemplate(self):
        return self.st
    
    def toString(self):
        if self.st is not None:
            return self.st.toString()
        return None
    __str__ = toString
>>

@genericParser.init() ::= <<
    @super.init()
    self.templateLib = stringtemplate3.StringTemplateGroup(  
        '<name>Templates', lexer='angle-bracket'
    )
>>

@genericParser.members() ::= <<
    @super.members()
    def setTemplateLib(self, templateLib):
        self.templateLib = templateLib
    
    def getTemplateLib(self):
        return self.templateLib
>>
/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= "<ruleRef(...)>
          <listLabel(label, {<label>.st})>
" 

rewriteTemplate(alts) ::= "# TEMPLATE REWRITE
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <else>
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>
"

replaceTextInLine() ::= "<if(TREE_PARSER)>
  self.input.getTokenStream().replace(
    self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
    self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
    retval.st
  )
  <else>
  self.input.replace(
    retval.start.getTokenIndex(),
    self.input.LT(-1).getTokenIndex(),
    retval.st
  )
  <endif>
"

rewriteTemplateAltFirst(alt) ::= "<if(alt.pred)>
  if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
  <\n>
  <else>
  # <alt.description>
  retval.st = <alt.alt>
  <\n>"
```plaintext
rewriteTemplateAlt(alt) ::= <<
  <if(alt.pred)>if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
  </n>
  <else>se:
    # <alt.description>
    retval.st = <alt.alt>
  </n>
  <endif>
>>

rewriteEmptyTemplate(alts) ::= <<
  None
>>

/** Invoke a template with a set of attribute name/value pairs.
 *  Set the value of the rule's template *after* having set
 *  the attributes because the rule's template might be used as
 *  an attribute to build a bigger template; you get a self-embedded
 *  template.
 */
rewriteExternalTemplate(name, args) ::= <%
  self.templateLib.getInstanceOf("<name>", attributes={"<args:a | "<a.name>: <a.value> }; separator=",
  ">
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
  self.templateLib.getInstanceOf(<expr>, attributes={"<args:a | "<a.name>: <a.value> }; separator=",
  ">
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
  stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args), attributes={"<args:a |
    "<a.name>: <a.value> }; separator=",
  ">
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
  <action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
```
actionSetAttribute(st, attrName, expr) ::= <<
(st)["attrName"] = expr
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/templates/Python3/ST.stg
No license file was found, but licenses were detected in source scan.

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*/

@outputFile.imports() ::= <<
@super.imports()
@if(!TREE_PARSER)! tree parser would already have imported !>
import org.antlr.runtime.tree.*;
@endif>
>>

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@genericParser.members() ::= <<
  @@super.members()>
  <parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();
  override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
  }
  override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
  }
>>

@returnScope.ruleReturnMembers() ::= <<
  <ASTLabelType> tree;
  public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  var root_0:<ASTLabelType> = null;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
    ruleDescriptor.wildcardTreeListLabels]:{it | var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{it | var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites:
    :[it |var stream_<it>:RewriteRule<rewriteElementType>Stream=new
      RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");]; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites:
    :[it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");]; separator="\n"
>>

/** When doing auto AST construction, we must define some variables:
*  These should be turned off if doing rewrites. This must be a "mode"
*  as a rule could have both rewrite and AST within the same alternative
*  block.
*/
@alt.declarations() ::= <<
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<<
  <tokenRefBang(...)> ! Track implies no auto AST construction!>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<<
  <tokenRefTrack(...>)
  <listLabel(elem=label,...)>}
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<<
  <tokenRefBang(...)}
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<<
  <tokenRefRuleRootTrack(...)}
  <listLabel(elem=label,...)>}
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<<
  <super.ruleRef(...)}
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.tree);<
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<<
  <ruleRefTrack(...)}
  <listLabel(label, [<label>.tree])>}
>>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
>>
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(label, {<label>.tree})>
>>
// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = <ASTLabelType>(adaptor.nil());
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),

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retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef>().tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef>().tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{it |var stream_<it>: RewriteRule<rewriteElementType> Stream=new RewriteRule<rewriteElementType> Stream(adaptor,"token <it> ",<it>);};
 separator="\n"
>
<referencedTokenListLabels
 :{it |var stream_<it>: RewriteRule<rewriteElementType> Stream=new RewriteRule<rewriteElementType> Stream(adaptor,"token <it> ", list_<it>);};
 separator="\n"
>
<referencedWildcardLabels
 :{it |var stream_<it>: RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",<it>);};
 separator="\n"
>
<referencedWildcardListLabels
 :{it |var stream_<it>: RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ", list_<it>);};
 separator="\n"
>
<referencedRuleLabels
 :{it |var stream_<it>: RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it> ",<it>!=null? <it>.tree: null);};
 separator="\n"
>
<referencedRuleContextLabels
 :{it |var stream_<it>: RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"token <it> ", list_<it>);};
 separator="\n"
>
>>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  // <fileName>:<description>
  if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||"> ) {
    <alt>
  }
  <referencedElementsDeep:{el | stream_<el>.reset();\n}> >>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  // <fileName>:<description>
  while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
    <alt>
  }
  <referencedElements:{el | stream_<el>.reset();\n}> >>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  // <fileName>:<description>
  if (!(<referencedElements:{el | stream_<el>.hasNext}; separator="||">)) {
    throw new RewriteEarlyExitException();
  }
  while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
    <alt>
  }
  <referencedElements:{el | stream_<el>.reset();\n}> >>

rewriteAlt(a) ::= <<
  // <a.description>
  <if(a.pred)>
if (<a.pred>) {
    <a.alt>
} <\n
<else>
{
    <a.alt>
}<\n
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
    // <fileName>:<description>
    {
        var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
        <root:rewriteElement()>
        <children:rewriteElement()>
        adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
    } <\n
    >>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
    <@pregen()>
    <e.el>
    >>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
    adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n
    >>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
    adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n
    >>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
    adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n
    >>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
    root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n
    >>
/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>));<
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,terminalOptions,args)>);<
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(token,terminalOptions,args)>, root_<treeLevel>));<
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of root_0 right
 * before I set it during rewrites. The assign will be to retval.tree.
 */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<
>>
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>
rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
<ASTLabelType>(adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>))
<endif>
>>
createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-

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jar/org/antlr/codegen/templates/ActionScript/AST.stg
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 */

/** Build an AST from a single StringTemplate template */
parser grammar STParser;

options {
    language=Java;
    tokenVocab=STLexer;
    TokenLabelType=CommonToken;
    output=AST;
    ASTLabelType=CommonTree;
}

tokens {
    EXPR; OPTIONS; PROP; PROP_IND; INCLUDE; INCLUDE_IND; EXEC_FUNC; INCLUDE_SUPER;
    INCLUDE_SUPER_REGION; INCLUDE_REGION; TO_STR; LIST; MAP; ZIP; SUBTEMPLATE; ARGS;
    ELEMENTS; REGION; NULL; INDENTED_EXPR;
}
@header {
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.ErrorManager;
import org.stringtemplate.v4.misc.ErrorType;
}

@members {
ErrorManager errMgr;
Token templateToken;
public STParser(TokenStream input, ErrorManager errMgr, Token templateToken) {
    this(input);
    this.errMgr = errMgr;
    this.templateToken = templateToken;
}
@Override
protected Object recoverFromMismatchedToken(IntStream input, int ttype, BitSet follow)
throws RecognitionException
{
    throw new MismatchedTokenException(ttype, input);
}
}

@rulecatch {
catch (RecognitionException re) { throw re; }
}

templateAndEOF : template EOF -> template? ;
template : element* ;
element :
    [input.LT(1).getCharPositionInLine()==0]? INDENT? COMMENT NEWLINE -> // throw away
    [INDENT singleElement -> ^(INDENTED_EXPR INDENT singleElement?) // singleElement is optional to handle
      error returning nil
    |singleElement
    |compoundElement
    ]
    ;
singleElement :
    exprTag
    |TEXT
    |NEWLINE
    |COMMENT! // throw away
    ;
compoundElement :
    ifstat
    |region
notConditional

::"!" notConditional

|memberExpr

;

notConditionalExpr

::(ID-ID)

(p=".'\prop=ID-> ^[PROP ['$p',"PROP"] SnotConditionalExpr $prop)

|p=".' (' mapExpr ')-> ^(PROP_IND ['$p',"PROP_IND"] SnotConditionalExpr mapExpr)

)*

;

exprOptions : option ( ',' option )* -> ^(OPTIONS option*) ;

option

@init 

String id = input.LT(1).getText();
String defVal = Compiler.defaultOptionValues.get(id);
boolean validOption = Compiler.supportedOptions.get(id)!=null;
} :ID

{ if ( !validOption ) {
    errMgr.compileTimeError(ErrorType.NO_SUCH_OPTION, templateToken, $ID, $ID.text);
}

'} exprNoComma -> {validOption}? ^(' ID exprNoComma

- >

|[

if ( defVal==null ) {
    errMgr.compileTimeError(ErrorType.NO_DEFAULT_VALUE, templateToken, $ID);
}

}
-> {validOption&&!defVal!=null}?

^EQUALS["="] ID STRING[$ID,""+defVal+"""]

->
)

;

exprNoComma

:memberExpr

( '.' mapTemplateRef-> ^(MAP memberExpr mapTemplateRef)
  |

-> memberExpr
)

;

expr : mapExpr ;
// more complicated than necessary to avoid backtracking, which ruins
// error handling
mapExpr
  :memberExpr
    ( (c=',' memberExpr)+ col=':' mapTemplateRef
        -> ^(ZIP[$col] ^(ELEMENTS memberExpr+) mapTemplateRef)
        |-> memberExpr
    )
    ({$x!=null} $x.clear();) // don't keep queueing x; new list for each iteration
    col=':' x+=mapTemplateRef ({$c==null}?=> ',' x+=mapTemplateRef )*
        -> ^(MAP[$col] $mapExpr $x+)
    )*
  
  /*
    expr:template(args) apply template to expr
    expr:{arg | ...} apply subtemplate to expr
    expr:(e)(args) convert e to a string template name and apply to expr
  */
mapTemplateRef
  :ID ('arg')? -> ^(INCLUDE_ID ID args?)
|subtemplate
  [ lp=(' mapExpr rp=') ('argExprList?')? -> ^(INCLUDE_IND mapExpr argExprList?) ]

memberExpr
  :includeExpr->includeExpr
    (p='.' ID? -> ^(PROP[$p,"PROP"] $memberExpr ID)
    | p='.' '(' mapExpr ')? -> ^(PROP_IND[$p,"PROP_IND"] $memberExpr mapExpr)
    )*
|FALSE
|subtemplate
|list
|[
|[$conditional.size()>0]? => '(! conditional ')!
|[$conditional.size()==0]? => lp=(' expr ')
|(' argExprList?' )
|-> ^(INCLUDE_IND[$lp] expr argExprList?)
|-> ^(TO_STR[$lp] expr)
|
|; args:argExprList
|namedArg (',', namedArg)* ('...')? -> namedArg+ '...'?
| |
| |
| |
| |
| |
| |
|
|argExprList : arg (',', arg )* -> arg+ ;

arg : exprNoComma ;

namedArg : ID '=' arg -> ^(=' ID arg) ;

list:{input.LA(2)==RBRACK}? // hush warning: [] special case
|lb=[''] -> LIST[$lb]
|[lb=[''] listElement (',', listElement)* ']? -> ^(LIST[$lb] listElement+)
|
|
|listElement : exprNoComma | -> NULL ;

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-JAR/org/stringtemplate/v4/compiler/STParser.g
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*/
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/
parserMembers() ::= <<
protected DebugTreeAdaptor adaptor =
   new DebugTreeAdaptor(null,new CommonTreeAdaptor());
public void setTreeAdaptor(TreeAdaptor adaptor) {
   this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
}
public TreeAdaptor getTreeAdaptor() {
   return adaptor;
}<\in>
>>

parserCtorBody() ::= <<
>>

createListenerAndHandshake() ::= <<
<super.createListenerAndHandshake()>
>>

torForPredefinedListener() ::= <<
>>

@rewriteElement.pregen() ::= ""

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/ASTDbg.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Python by code generator.
*/
group ASTDbg:

astAccessor() ::= <<
  def setTreeAdaptor(self, adaptor):
    <if(grammar.grammarIsRoot)>
      self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
    <else>
      self._adaptor = adaptor # delegator sends dbg adaptor
    <endif>
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(self._adaptor)}>>

  def getTreeAdaptor(self):
    return self._adaptor

  adaptor = property(getTreeAdaptor, setTreeAdaptor)\n>>
createListenerAndHandshake() ::= <<
proxy = DebugEventSocketProxy(self,
adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor()<else>self._adaptor<endif>,
    debug=debug_socket, port=port)
self.setDebugListener(proxy)
self.adaptor.setDebugListener(proxy)
sself.input.setDebugListener(proxy)
#self.setInputType(Debug(inputStreamType)(self.input, proxy))
proxy.handshake()
>>

@rewriteElement.pre(gen) ::= "self._dbg.location(<e.line>, <e.pos>)"

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*/

/** Templates for building ASTs during tree parsing. */
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard

* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...

*/

/* addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* ASTTreeParser returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/*** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
/* ASTTreeParser returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;
>>

/*** the implementation of returnScope methods */
@returnScope.methods() ::= <<
/* ASTTreeParser returnScope.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
        if (tree != nil) [tree release];
        if (aTree != nil) [aTree retain];
        tree = aTree;
    }
}

- (void) dealloc
{
    [self setTree:nil];
    [super dealloc];
}

@synthesize tree;
>>
@returnScopeProperties() ::= <<
@property (retain) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
/* ASTTreeParser ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *_first_0 = nil;
<ASTLabelType> *_last = nil;<

>>

/** What to emit when there is no rewrite rule. For auto build */
* noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType> *)_first_0;
if ( [treeAdaptor getParent:retval.tree] != nil && [treeAdaptor isNil:[treeAdaptor getParent:retval.tree]] )
    retval.tree = (<ASTLabelType> *)[treeAdaptor getParent:retval.tree];
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to */
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
/* ASTTreeParser tree */
_last = (<ASTLabelType> *)[input LT:1];
{
<ASTLabelType> *_save_last_<treeLevel> = _last;
<ASTLabelType> *_first_<treeLevel> = nil;
<if(!rewriteMode)>
<ASTLabelType> *root_<treeLevel> = [[[treeAdaptor class] newEmptyTree] retain];
<endif>
=root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel> ==nil ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel> ==nil ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
if ( [input LA:1] == TokenTypeDOWN ) {
    [self match:input TokenType:TokenTypeDOWN Follow: nil]; <checkRuleBacktrackFailure()>
    [children:element()];
    [self match:input TokenType:TokenTypeUP Follow: nil]; <checkRuleBacktrackFailure()>
} else
    [self match:input TokenType:TokenTypeDOWN Follow: nil]; <checkRuleBacktrackFailure()>
    [children:element()];
    [self match:input TokenType:TokenTypeUP Follow: nil]; <checkRuleBacktrackFailure()>
</endif>
@if(!rewriteMode) 
    [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
@endelse
    _last = _save_last_<treeLevel>;

} \n
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)
if(!rewriteMode) 
    if (backtracking) if ( <actions.(actionScope).synpredgate> ) { endif
    if(terminalOptions.node) 
        _tree = [terminalOptions.node] new<terminalOptions.node>:<label>; 
    else 
        _tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
    endif
    </if(backtracking)>
    [treeAdaptor addChild:_tree toTree:root_<treeLevel>];
    if(backtracking) > </endif
    else < ! rewrite mode !>
    if(backtracking) if ( <actions.(actionScope).synpredgate> )<endif
    if (_first_<treeLevel> == nil ) _first_<treeLevel> = <label>;


** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefAndListLabel */
<tokenRef(...)>  
<listLabel(elem=label,...)>  
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif><

root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}</endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>  
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser wildcard */
_last = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupTree:<label>];
[treeAdaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}</endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>;
<endif>
// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(postmatchCode={
  <if(!rewriteMode)>
    <if(backtracking)>
      if ( <actions.(actionScope).synpredgate> ) {<endif>
    <if(terminalOptions.node)>
      <label>_tree = [ <terminalOptions.node> new<terminalOptions.node>:<label> ];
    <else>
      <label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
    <endif>
    [adaptor addChild:<label>_tree toTree:root_<treeLevel>];
    <if(backtracking)>
  }<endif>
}>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTTreeParser matchRuleBlockSet */
<matchSet(...)>
<noRewrite(...)><! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)> >>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(postmatchCode={
  <if(!rewriteMode)>
    <if(backtracking)>
      if ( <actions.(actionScope).synpredgate> ) {<endif>
    <if(terminalOptions.node)>
      <label>_tree = [ <terminalOptions.node> new<terminalOptions.node>:<label> ];
    <else>
      <label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
    <endif>
    root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
    <if(backtracking)>
  }<endif>
}>

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// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>;
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>  
[treeAdaptor addChild:<label>.tree toTree:root_<treeLevel>]
<else> <! rewrite mode !>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefAndListLabel */
<ruleRef(...)>
<! <listLabel(elem = "["+label+" getTree"]",...)> !>
<listLabel(elem = {
<label> getTree
})]>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>;
<if(!rewriteMode)>  
<if(backtracking)>if ( state.backtracking == 0 ) <endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>.tree old:root_<treeLevel>]
<else> <! rewrite mode !>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {
<label> getTree
})]>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrack */
_last = (<ASTLabelType> *)[input LT:1];
// x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTTreeParser ruleRefTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrackAndListLabel(...)>
>>

// ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrack(...)>
>>

// ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to 
* change nextToken to nextNode. */
createRewriteNodeFromElement(token, terminalOptions, scope) ::= <<
/* ASTTreeParser createRewriteNodeFromElement */
<if(terminalOptions.node)>
<new terminalOptions.node>(stream_<token>.nextNode()) !>
[[terminalOptions.node>(stream_<token> alloc] init] nextNode];
<else>
<stream_<token>.nextNode() !>
[stream_<token> nextNode]
<endif>
>>

ruleCleanUp() ::= <<
/* ASTTreeParser ruleCleanUp */
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <un><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
<if(backtracking)> } <endif>
<endif>
>>
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    */

    package org.antlr.stringtemplate.language;
    import org.antlr.stringtemplate.*;
    import java.util.*;
}

/** Match a group of template definitions beginning
 * with a group name declaration. Templates are enclosed
 * in double-quotes or «...» quotes for multi-line templates.
 * Template names have arg lists that indicate the cardinality
 * of the attribute: present, optional, zero-or-more, one-or-more.
 * Here is a sample group file:

 group nfa;

 // an NFA has edges and states
nfa(states, edges) ::= <
  digraph NFA {
    rankdir=LR;
    <states; separator="\n">  
    <edges; separator="\n"> 
  } 
} >>

state(name) ::= "node [shape = circle]; <name>;"

*/
class GroupParser extends Parser;

options {
  k=3;
}

group[StringTemplateGroup g] { 
  this.group = g;
  : "group" name:ID {g.setName(name.getText());}
  ( COLON s:ID {g.setSuperGroup(s.getText());})? 
    ( "implements" i:ID {g.implementInterface(i.getText());} 
    (COMMA i2:ID {g.implementInterface(i2.getText());} )*)?
  SEMI 
  ( template[g] | mapdef[g] )+
  :

template[StringTemplateGroup g] { 
  Map formalArgs = null;
  StringTemplate st = null;
boolean ignore = false;
String templateName=null;
int line = LT(1).getLine();
}

(AT scope:ID DOT region:ID
{
  
  templateName=g.getMangledRegionName(scope.getText(),region.getText());
  if ( g.isDefinedInThisGroup(templateName) ) {
    g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+
             scope.getText()+","+region.getText());
    st = new StringTemplate(); // create bogus template to fill in
  } else {
    boolean err = false;
    // @template.region() ::= "...
    StringTemplate scopeST = g.lookupTemplate(scope.getText());
    if ( scopeST==null ) {
      g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+
             scope.getText());
      err=true;
    } if ( !scopeST.containsRegionName(region.getText()) ) {
      g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+
             region.getText());
      err=true;
    } if ( err ) {
      st = new StringTemplate();
    } else {
      st = g.defineRegionTemplate(scope.getText(),
                              region.getText(),
                              null,
                              StringTemplate.REGION_EXPLICIT);
    }
  }
} name:ID {templateName = name.getText();
{
  if ( g.isDefinedInThisGroup(templateName) ) {
    g.error("redefinition of template: "+templateName);
    st = new StringTemplate(); // create bogus template to fill in
  } else {
    st = g.defineTemplate(templateName, null);
  }
}
\{ if ( st!=null ) \{ st.setGroupFileLine(line); \}\} 
LPAREN
\{ args[st][st.defineEmptyFormalArgumentList();]\} 
RPAREN
DEFINED_TO_BE
(t:STRING \{ st.setTemplate(t.getText()); \}
| bt:BIGSTRING \{ st.setTemplate(bt.getText()); \}
) 
| alias:ID DEFINED_TO_BE target:ID
\{ g.defineTemplateAlias(alias.getText(), target.getText()); \}
;
args[StringTemplate st]
  : arg[st] ( COMMA arg[st] )* 
;
arg[StringTemplate st]
{ StringTemplate defaultValue = null; }
  : name:ID
  \{ ASSIGN s:STRING
  { defaultValue=new StringTemplate("$_val_$");
  defaultValue.setAttribute("_val_", s.getText());
  defaultValue.defineFormalArgument("_val_");
  defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
  }
  \{ ASSIGN bs:ANONYMOUS_TEMPLATE
  { defaultValue=new StringTemplate(st.getGroup(), bs.getText());
  defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
  }
  )?
  \{ st.defineFormalArgument(name.getText(), defaultValue); \}
  ;


*/
suffix returns [int cardinality=FormalArgument.REQUIRED]
  : OPTIONAL \{ cardinality=FormalArgument.OPTIONAL; \}
  | STAR \{ cardinality=FormalArgument.ZERO_OR_MORE; \}
  | PLUS \{ cardinality=FormalArgument.ONE_OR_MORE; \}
  ;
*/

mapdef[StringTemplateGroup g]
{ 
    Map m=null;
}

:name:ID
    DEFINED_TO_BE m=map 
    {
        if ( g.getMap(name.getText())!=null ) {
            g.error("redefinition of map: "+name.getText());
        }
        else if ( g.isDefinedInThisGroup(name.getText()) ) {
            g.error("redefinition of template as map: "+name.getText());
        }
        else {
            g.defineMap(name.getText(), m);
        }
    }
}

map returns [Map mapping=new HashMap()]
    : LBRACK mapPairs[mapping] RBRACK 
    :

mapPairs [Map mapping]
    : keyValuePair[mapping] (COMMA keyValuePair[mapping])* 
        (COMMA defaultValuePair[mapping])? 
        | defaultValuePair[mapping] 
    : 

defaultValuePair[Map mapping]
    {
        StringTemplate v = null;
    }
    : "default" COLON v=keyValue 
        {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);}
    :

keyValuePair[Map mapping]
    {
        StringTemplate v = null;
    }
    : key:STRING COLON v=keyValue {mapping.put(key.getText(), v);} 
    :

keyValue returns [StringTemplate value=null]
    : s1:BIGSTRING{value = new StringTemplate(group,s1.getText());}
    | s2:STRING{value = new StringTemplate(group,s2.getText());}
    | k:ID{k.getText().equals("key")}? 
    { value = ASTExpr.MAP_KEY_VALUE; }
class GroupLexer extends Lexer;

options {
  k=2;
  charVocabulary = 'u0000'..'uFFFF';
  testLiterals=false;
}

ID
options {
  testLiterals=true;
}

:('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*

STRING

:"!! ( \W! \W| ~\W | ~"" )* ~! ~!

BIGSTRING

:"<<"!

(\W)\W?\n! {newline();} // consume 1st \n
(\W)\W?\n! {newline();} // stop when you see the >>

(\W)\W?\n! {newline();} // kill last \n
(\W)\W?\n! {newline();} // else keep

">>"!

ANONYMOUS_TEMPLATE

{List args=null;
 StringTemplateToken t = null;
}

:'!

(\W)\W?\n! {newline();} // else keep

'}

'}

/*

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Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/CommonToken.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/NoViableAltException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/debug/DebugEventListener.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/debug/DebugTreeParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/tree/CommonTree.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/ParserRuleReturnScope.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/runtime/BaseRecognizer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/runtime/tree/RewriteRuleSubtreeStream.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/RecognitionException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/Profiler.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/RecognitionException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/FailedPredicateException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/misc/Stats.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/ClassicToken.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/DebugTreeAdaptor.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/Lexer.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeRewriter.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeRuleReturnScope.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/DebugEventSocketProxy.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/MissingTokenException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/CharStream.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/MismatchedNotSetException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeIterator.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/BaseTree.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeAdaptor.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/MismatchedRangeException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/Token.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/misc/FastQueue.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/BufferedTreeNodeStream.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreePatternParser.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/MismatchedTokenException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/CharStream.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/MismatchedNotSetException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/DebugTokenStream.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeIterator.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/BaseTree.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeAdaptor.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/MismatchedRangeException.java
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/Token.java

jar/org/antlr/runtime/TokenStream.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/CommonTreeNodeStream.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/DebugEventHub.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/RewriteRuleNodeStream.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/misc/IntArray.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/ANTLRInputStream.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/RemoteDebugEventSocketListener.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/Parser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/DOTTreeGenerator.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/UnbufferedTokenStream.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/RewriteEmptyStreamException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/RuntimeReturnScope.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/RewriteCardinalityException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/TreeNodeStream.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/BitSet.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/RuleReturnScope.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/CommonTreeAdaptor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/misc/IntArray.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/TraceDebugEventListener.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/debug/BlankDebugEventListener.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/UnbufferedDebugEventListener.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/ANTLRInputStream.java
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*/

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label  (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
First[0] := nil;
_Last := nil;
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
First, _Save_Last: array [0..63] of I<ASTLabelType>;
_Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build *
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(rewriteMode)>
RetVal.Tree := _First[0] as I<ASTLabelType>;
if (Adaptor.GetParent(RetVal.Tree) \\
\&\& nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then
RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;
<endif>
<if(backtracking)>end;<endif>
>>

/** match ^(root children) in tree parser; override here to *
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList, *
enclosingTreeLevel, treeLevel) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
begin
_Save_Last[<treeLevel>] := _Last;
_First[<treeLevel>] := nil;
<if(!rewriteMode)>
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
<endif>

_root:element()>
<if(rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(root.el.rule)>
if (!_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
<else>
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
  Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
<children:element()>
Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()> 
<endif>
<if(!rewriteMode)>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
<endif>
_Last := _Save_Last[<treeLevel>];
end;<
>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add * setting of _last */
tokenRefBang(token,label,elementIndex) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.tokenRef(...)> 
  <if(!rewriteMode)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin
  <endif>
  <if(terminalOptions.node)>
  <label>_tree := T<terminalOptions.node>.Create(<label>);
  <else>
  <label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>
  <endif>
  Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
  </if>
>>
<if(backtracking)>
end;
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)> 
;if(!rewriteMode)>
;if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
;if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)> 
<listLabel(elem=label,...)>>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(,..., postmatchCode={
<if(!rewriteMode)>

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<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>

Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>

}
>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)>>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>

Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>

}
>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> <!-- rewrite mode -->
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(!rewriteMode)
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<end>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<end>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg
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*/

/** Templates for building ASTs during tree parsing. */

* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label  (label/no-label handled together)
* child, root
* token, set, rule, wildcard

* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */

noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)._first_0;
retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<endif>
>>
/** match ^(root children) in tree parser; override here to
*  add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
{
    <ASTLabelType> _save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
    <if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
    </if>
    <root:element()>
    <if(rewriteMode)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
    <if(root.el.rule)>
    if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
    <else>
    if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>;
    </if>
    <actionsAfterRoot:element()>
    </if>
    <if(nullableChildList)>
    if (input.LA(1) == TokenTypes.Down) {
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
    }
    <else>
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
    </if>
    <if(!rewriteMode)>
    adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
    </if>
    _last = _save_last_<treeLevel>;
}>
<else>
<super.tree(...)>
</endif>
>>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>  
<else>
  <super.tokenRefBang(...)> 
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>  
<if(!rewriteMode)>
  if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;</n>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
<endif>
<if(!rewriteMode)>
  <else> <! rewrite mode !>
  if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;</n>
  <endif>
<endif>
<super.tokenRef(...)>  
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>  
<else>
  <super.tokenRefBang(...)> 
<endif>
>>
/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...>)
</if>
<if(!rewriteMode)>
<if(backtracking)>if (actions.(actionScope).synpredgate) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
</if>
<else>
<super.tokenRefRuleRoot(...)>
</endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
</endif>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (actions.(actionScope).synpredgate) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  (!_ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(postmatchCode={
    (_ruleDescriptor.isRewriteMode)>
    (_backtracking)>if (_actions.(actionScope).synpredgate) {
    (_ruleDescriptor.isTerminalOptions.node)>
    _label>_tree = new
    <terminalOptions.node>;<terminalOptions.type>,<terminalOptions.text; format="string">;
    <else>
    _label>_tree =
    (<ASTLabelType>)adaptor.DupNode(<terminalOptions.type>,<terminalOptions.text>),<terminalOptions.text; format="string">;
    <endif>
  }>
  adaptor.AddChild(root_<treeLevel>, _label>_tree);
  (_backtracking)>}
  ...
  }
  <super.matchSet(...)
  _ruleDescriptor.isSynPred>
  <matchSet(...)>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
  (_ruleDescriptor.isSynPred)>
  <matchSet(...)>
  <noRewrite(...)>
  (_setReturnTree)>
  <else>
  <super.matchRuleBlockSet(...)
  <endif>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  (_ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
matchSetRuleRoot(s, label, terminalOptions, elementIndex, debug) ::= <<
<if(!ruleDescriptor.isSynPred)>
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>._tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>._tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><

root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>._tree, root_<treeLevel>);
<if(backtracking)></<endif>
<endif>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <!-- rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)
<endif>
>>
/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <ruleRef(...)>
    <listLabelElem(elem=[<label>.Tree,...])>
  <else>
    <super.ruleRefAndListLabel(...)>
  <endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>
    <if(!rewriteMode)>
      <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
        (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
    <endif>
    <else>
    <super.ruleRefRuleRoot(...)>
    <endif>
  <else>
  <super.ruleRefRuleRoot(...)>
<<

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <ruleRefRuleRoot(...)>
  <listLabelElem(elem=[<label>.Tree,...])>
  <else>
  <super.ruleRefRuleRootAndListLabel(...)>
  <endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefTrackAndListLabel(...)>
  <else>
  <super.ruleRefTrackAndListLabel(...)>
  <endif>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label;elementIndex;args;scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefRuleRootTrack(...)>
  <else>
    <super.ruleRefRuleRootTrack(...)>
  <endif>
 >>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label;elementIndex;args;scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefRuleRootTrackAndListLabel(...)>
  <else>
    <super.ruleRefRuleRootTrackAndListLabel(...)>
  <endif>
 >>

/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode. */
createRewriteNodeFromElement(token;terminalOptions;args) ::= <%
  <if(terminalOptions.node)>
    new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
  <else>
    stream_<token>.NextNode()
  <endif>
%>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!ruleDescriptor.isSynPred)>
    <if(!rewriteMode)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
      retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
    <if(backtracking)>}
    <endif>
  <endif>
 >>

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  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CH3/ASTTreeParser.stg
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

parserMembers() ::= <<
    protected DebugTreeAdaptor adaptor;
    public void setTreeAdaptor(TreeAdaptor adaptor) {
        <if(grammar.grammarIsRoot)>
            this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
        <else>
            this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
        <endif>
        <grammar.directDelegates:{g|g.delegateName()}.setTreeAdaptor(this.adaptor);}>
    }
    public TreeAdaptor getTreeAdaptor() {
        return adaptor;
    }
>>
parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this.port, input.getTreeAdaptor());
setDebugListener(proxy);
setInputStreamType(new Debug(inputStreamType)(input, proxy));
try {
proxy.handshake();
}
catch (IOException ioe) {
reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForProfilingRootGrammar.finally() ::=<<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
>>

@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
<endif>
>>

@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"

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*/
/** Templates for building ASTs during normal parsing.
 * * Deal with many combinations. Dimensions are:
 * * Auto build or rewrite
 * * no label, label, list label (label/no-label handled together)
 * * child, root
 * * token, set, rule, wildcard
 * *
 * * The situation is not too bad as rewrite (->) usage makes ^ and !
 * * invalid. There is no huge explosion of combinations.
 * */
group ASTParser;

@rule.setErrorReturnValue() ::= <<
RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,
Input.LT(-1), RE) as I<ASTLabelType>;
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
@if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := <createNodeFromToken(...)>>;
Adaptor.AddChild(Root[0], <label>_tree);
@if(backtracking)>
end;
/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...>>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<label>_tree := <createNodeFromToken(...)>
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>
<if(backtracking)>
end;
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>;)})>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<createNodeFromToken(...)>, Root[0]) as I<ASTLabelType>;})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0]) as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+.Tree",....)>
>>
/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)
<label>Tree"....)
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<label>Tree"....)
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)
@if(backtracking)
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree);
@if(backtracking)
end;
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)
@if(backtracking)
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
@if(backtracking)
end;
<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <<
@if(terminalOptions.node)
T<terminalOptions.node>.Create(<label>) <! new MethodNode(IDLabel) !>
#else
Adaptor.CreateNode(<label>) as I<ASTLabelType>
>>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(!TREE_PARSER>)
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<u>end;</u>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/ASTParser.stg
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*/

/** Templates for building ASTs during tree parsing. */
*  
*  Deal with many combinations. Dimensions are:
*  
*  Auto build or rewrite
*  *  no label, label, list label  (label/no-label handled together)
*  *  child, root
*  *  token, set, rule, wildcard
*  *  
*  Each combination has its own template except that label/no label
*  *  is combined into tokenRef, ruleRef, ...
*  */
/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> _last;<
>
  <ASTLabelType> _first_0;<
>
>>

/** Add a variable to track last element matched */
ruleInitializations() ::= <<
  <super.ruleInitializations()>
  _last = NULL;<
>
  _first_0 = NULL;<
>
>>

/** What to emit when there is no rewrite rule. For auto build
*  mode, does nothing. */
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
  <if(rewriteMode)>
    retval.tree = (<ASTLabelType>)_first_0;
    if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, ADAPTOR->getParent(ADAPTOR, retval.tree) ) )
    {
      retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
    }
  </if(rewriteMode)>
  <endif>
  <if(backtracking)>}</endif>

>>

/** match ^(root children) in tree parser; override here to
/* add tree construction actions. */

tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (_,LT(1));
    {<ASTLabelType>_save_last_<treeLevel>;
     <ASTLabelType>_first_<treeLevel>;
     <if(!rewriteMode)>
     <ASTLabelType>root_<treeLevel>;
     <endif>
     _save_last_<treeLevel> = _last;
     _first_<treeLevel> = NULL;
     <if(!rewriteMode)>
     root_<treeLevel> = (ADAPTOR->nilNode(ADAPTOR));
     <endif>
     <root:element()>
     <if(rewriteMode)>
     <if(backtracking) if (BACKTRACKING ==0) { <endif>
     <if(root.el.rule)>
     if (_first_<enclosingTreeLevel> == NULL) _first_<enclosingTreeLevel> = <root.el.label>.tree;
     <else>
     if (_first_<enclosingTreeLevel> == NULL) _first_<enclosingTreeLevel> = <root.el.label>;
     <endif>
     <if(backtracking)> } <endif>
     <endif>
     <actionsAfterRoot:element()>
     <if(nullableChildList)>
     if (LA(1) == ANTLR3_TOKEN_DOWN) {
      MATCHT(ANTLR3_TOKEN_DOWN, NULL);
      <children:element()>
      MATCHT(ANTLR3_TOKEN_UP, NULL);
      }
     <else>
     MATCHT(ANTLR3_TOKEN_DOWN, NULL);
     <children:element()>
     MATCHT(ANTLR3_TOKEN_UP, NULL);
     <endif>
     <if(!rewriteMode)>
     ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
     <endif>
     _last = _save_last_<treeLevel>;
    } <<

    // TOKEN AST STUFF

    /** ID! and output=AST (same as plain tokenRef) 'cept add
*/

```
setLast

setLast

tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)
  >>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)
  if(!rewriteMode)
    if(backtracking)
      if ( BACKTRACKING ==0 ) {<endif>
        <if(terminalOptions.node)
          <label>_tree = <terminalOptions.node>New(<label>);
        <else>
          <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
        <endif>
        ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
      }<endif>
  <else>
    if(backtracking)
      if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
    <endif>
  <endif>
  >>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)
  <listLabel(elem=label,...)
  >>

/** ^ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)
  if(!rewriteMode)
    if(backtracking)
      if ( BACKTRACKING == 0 ) {<endif>
        <if(terminalOptions.node)
          <label>_tree = <terminalOptions.node>New(<label>);
        <else>
          <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
        <endif>
        ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
      }<endif>
  <else>
    if(backtracking)
      if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
    <endif>
  <endif>
  >>
```
/** Match ^{label+=TOKEN ...} auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.wildcard(...)
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
<endif>
>>

// SET AST
matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(postmatchCode=)
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<label>_tree = <terminalOptions.node>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>
<endif>
}
,...;)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(postmatchCode={
@if(!rewriteMode)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ){<endif>
@if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>}
<endif>
}
,...
})
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{
<endif>
@if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, label.tree);
<else>
if (_first_<treeLevel> == NULL ) _first_<treeLevel> = label.tree;
<endif>
@if(backtracking)>}
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<super.listLabelAST(elem=label,...)>}
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
@if(!rewriteMode)>
@if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_<treeLevel> =
/** Streams for token refs are tree nodes now; override to * change nextToken to nextNode. */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>New(stream_<token>->nextNode(stream_<token>))
</if>
stream_<token>->nextNode(stream_<token>)
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp(...)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <endif>
    <if(!ruleDescriptor.isSynPred)>
    retval.stop = LT(-1);<
    <endif>
    retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
    <if(backtracking)>
    }
    <endif>
    <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
    <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
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*/
group gUnitTestResult;
testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<

<title> with <num_of_test> tests

<num_of_failure> failures found:
<failure: {<it.header>
expected: <it.expectedResult>
actual: <it.actualResult>
}>  
<if(has_invalid)>
<num_of_invalid> invalid inputs found:
<invalid: {<it.header>
invalid input: <it.actual>
}>  
<endif>


>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/gUnitTestResult.stg

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*/

/** Templates for building ASTs during tree parsing. *
* * Deal with many combinations. Dimensions are: *
* Auto build or rewrite *
* no label, label, list label (label/no-label handled together) *
* child, root *
* token, set, rule, wildcard *
* * Each combination has its own template except that label/no label *
* is combined into tokenRef, ruleRef, ...
*/

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var _first_0:<ASTLabelType> = null;
var _last:<ASTLabelType> = null;<
>
/** What to emit when there is no rewrite rule. For auto build *
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = <ASTLabelType>(_first_0);
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to *
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList, *
    enclosingTreeLevel, treeLevel) ::= <<
    _last = <ASTLabelType>(input.LT(1));
    {
    var _save_last_<treeLevel>:<ASTLabelType> = _last;
    var _first_<treeLevel>:<ASTLabelType> = null;
var root._treeLevel:ASTLabelType = <ASTLabelType>(adaptor.nil());

if(!rewriteMode)
<root:element()>

if(backtracking)if ( <actions.(actionScope).synpredgate> )<endif>

if(root.el.rule) if (_first._enclosingTreeLevel==null) _first._enclosingTreeLevel = <root.el.label>.tree;
else
if (_first._enclosingTreeLevel==null) _first._enclosingTreeLevel = <root.el.label>;
endif
endif

<actions:AfterRoot:element()>

if(nullableChildList)
if ( input.LA(1)==TokenConstants.DOWN ) {
    matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
else
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
endif
if(!rewriteMode)
adaptor.addChild(root._enclosingTreeLevel, root._treeLevel);
endif

_last = _save_last._treeLevel;
}

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
*  setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)
if(!rewriteMode)
if(backtracking)if ( <actions.(actionScope).synpredgate> ) {<endif>
if(terminalOptions.node)
<label>_tree = new <terminalOptions.node>(<label>);
</else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
</endif></label>
adaptor.addChild(root_<treeLevel>, <label>_tree);
</if(backtracking)> ] <endif>
</else>  <! rewrite mode !>
</if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
</endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<labelList(elem=label,...)>>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= << _last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
<if(!rewriteMode)> <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)> _last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
<if(!rewriteMode)> <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(backtracking)>}<endif>
</if(backtracking)>}<endif>
</if(backtracking)>]
<label>_tree = new <terminalOptions.node>(<label>);
</else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
</endif></label>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
</if(backtracking)> ] <endif>
</if(backtracking)>}

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)
<labelList(elem=label,...)>>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= << _last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)> <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(backtracking)>}<endif>
</if(backtracking)>}
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> } <endif>
<else> <! rewrite mode !>
<if(backtracking)> if ( <actions.(actionScope).synpredgate> ) } <endif>
if ( _first_<treeLevel> == null ) _first_<treeLevel> = <label>;
<endif>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)> if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><
>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> }<endif>
<endif>

}, ... )>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite(...) > <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)> if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><
>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)> }<endif>
<endif>
// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
    adaptor.addChild(root_<treeLevel>, <label>.tree);
  <else> <! rewrite mode !>
    if ( (_first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
  <endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...)>
  <if(!rewriteMode)>
    _first_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrackAndListLabel(...)>
>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRootTrack(...>)
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRuleRootTrackAndListLabel(...>)
>>

/** Streams for token refs are tree nodes now; override to
*  change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
  <if(terminalOptions.node)>
    new <terminalOptions.node>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
  <endif>
  retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
  <if(backtracking)>}<endif>
  <endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTdbg : AST : Dbg : Python by code generator.
*/
group ASTDbg;

astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
    <if(grammar.grammarIsRoot)>
        self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
    <else>
        self._adaptor = adaptor # delegator sends dbg adaptor
    <endif>
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(self._adaptor)>
        def getTreeAdaptor(self):
            return self._adaptor

        adaptor = property(getTreeAdaptor, setTreeAdaptor)
    >>>

createListenerAndHandshake() ::= <<
    proxy = DebugEventSocketProxy(self,
        adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor()<else>self._adaptor<endif>,
        debug=debug_socket, port=port)
    self.setDebugListener(proxy)
    self.adaptor.setDebugListener(proxy)
    self.input.setDebugListener(proxy)
>>
#self.set<InputStreamType>(Debug<InputStreamType>(self.input, proxy))
proxy.handshaker()

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python3/ASTdbg.stg

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/BooleanTest.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/AbstractTest.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/gUnitTestResult.java
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*/
/*
New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the format that mimicks GCC output.
*/

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

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*/

/** Templates for building ASTs during tree parsing.
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */

group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
   retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>
/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
    <if(backtracking)>if ( state.backtracking==0 )<endif>
    <if(root.el.rule)>
        if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
    <else>
        if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
    <endif>
    <endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
        match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    }
<else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
>>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}
>
>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add * setting of _last */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<endif>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
tokenRef(...)
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
```java
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
  >>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( state.backtracking==0 ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
    <endif><
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>}<endif>
  <endif>
  >>

  <if(label+=TOKEN ...)>
  <matchSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)> <noRewrite()> <! set return tree !>
  >>

  matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)> 
  >>
```
matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
\nroot_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
})>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule.label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel]==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>n
<listLabel(elem=label+.getTree(),...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
( <ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/

createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
    <if(terminalOptions.node)>
    new <terminalOptions.node>(stream_<token>.nextNode())
    <else>
    stream_<token>.nextNode()
    <endif>
>>

ruleCleanUp() ::= <<
    <super.ruleCleanUp()>
    <if(!rewriteMode)>
    <if(backtracking)>
        if ( state.backtracking==0 ) {
        <endif>
        retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
        <if(backtracking)>}
    <endif>
    <endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
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/*

* This code generating template and the associated Cpp runtime was produced by:
* Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )
*/

cTypeInitMap ::= [
  "int"  : "0", // Integers start out being 0
  "long" : "0", // Longs start out being 0
  "float" : "0.0", // Floats start out being 0
  "double" : "0.0", // Doubles start out being 0
  "bool"  : "false", // Booleans start out being Antlr C for false
  "byte"  : "0", // Bytes start out being 0
  "short" : "0", // Shorts start out being 0
  "char"  : "0" // Chars start out being 0
]

leadIn(type) ::= <<

/** 
*  This <type> file was generated by $ANTLR version $ANTLRVersion
*     -  From the grammar source file : <fileName>
*     -                            On : <generatedTimestamp>
*     -                 for the lexer : <name>Lexer
*     -                for the parser : <name>Parser
*     -           for the tree parser : <name>TreeParser
* Editing it, at least manually, is not wise.
* C++ language generator and runtime by Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )
* */

"*/

/ 

*/
/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

outputFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
 ) ::= <<
<leadIn("C++ source")>
*/

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<if(actions.(actionScope).header)>

/* ====================================================================
 * This is what the grammar programmer asked us to put at the top of every file.
 */
<actions.(actionScope).header>
/* End of Header action.
 * ====================================================================
 */
<endif>

/* -----------------------------------------
 * Include the ANTLR3 generated header file.
 */
#include "<name>hpp"
<if(trace)>
#include \iostream
<endif>
<if(recognizer.grammar.delegators)>
// Include delegator definition header files
//
<recognizer.grammar.delegators: {{g|#include "g.recognizerName>.hpp" }; separator="\n"}>
<endif>

<actions.(actionScope).postinclude>
/* ----------------------------------------- */

<docComment>

<if(literals)>

<beginNamespace(actions)>

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/** String literals used by <name> that we must do things like MATCHES() with.
* C will normally just lay down 8 bit characters, and you can use L”xxx” to
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/

<literals:{it | static ANTLR_UCHAR	lit_<i>[]  = <it>;}; separator="\n">

<endNamespace(actions)>

<endif>

/* =============================================================================*/

/* =============================================================================
* Start of recognizer
*/

<recognizer>

/* End of code
* =============================================================================*/

>>

headerFileExtension() ::= ".hpp"

beginNamespace(actions) ::= <%
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace> {
<endif>
%

endNamespace(actions) ::= <%
<if(actions.(actionScope).namespace)>
}
<endif>
%

headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= <<
<leadIn("C++ header")>
<if(PARSER)>
* The parser <mainName()> has the callable functions (rules) shown below,
<endif>
<if(LEXER)>
* The lexer <mainName()> has the callable functions (rules) shown below,
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()> has the callable functions (rules) shown below,
<endif>
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
*/
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#ifndef _<name>_H
#define _<name>_H

/* ====================================================================
* Standard antlr3 C++ runtime definitions
* ====================================================================*/
#include <antlr3.hpp>

/* End of standard antlr 3 runtime definitions
* ====================================================================*/

<actions.(actionScope).includes>
<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|\#include"<g.recognizerName>.hpp"}; separator="\n">

<endif>

<actions.(actionScope).header>

#ifdef WIN32
// Disable: Unreferenced parameter.- Rules with parameters that are not used
const conditional, - ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable- tree rewrite variables declared but not needed
// Unreferenced local variable- lexer rule declares but does not always use _type
// potentially uninitialized variable used- retval always returned from a rule
// unreferenced local function has been removed- usually getTokenNames or freeScope, they can go without
// warnings

// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.

#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif

/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/

<if(backtracking)>

/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/

<endif>

<beginNamespace(actions)>

<if(recognizer.grammar.delegators)>
// Include delegator definition classes
//
<recognizer.grammar.delegators: {g|class <g.recognizerName>; }; separator="\n">
<endif>

<actions.(actionScope).traits>
typedef <name>Traits <name>ImplTraits;

<rules:{r | <if(r.ruleDescriptor.isSynPred)> struct <r.ruleDescriptor.name> \{\}; <endif> }; separator="\n">

class <name>Tokens
{
    public:
    /** Symbolic definitions of all the tokens that the <grammarType()> will work with.
     * 
     * Antlr will define EOF, but we can't use that as it it is too common in
     * in C header files and that would be confusing. There is no way to filter this out at the moment
     * so we just undef it here for now. That isn't the value we get back from C recognizers
     */

```
*/
enum Tokens {
    EOF_TOKEN = ImplTraits::CommonTokenType::TOKEN_EOF
};

/** Context tracking structure for <mainName()> */
class <name> : public <componentBaseType>(), public Tokens {
    public:
        typedef ImplTraits ImplTraits;
        typedef ComponentType;
        typedef ComponentType::StreamType StreamType;
        typedef BaseType;
        typedef ImplTraits::RecognizerSharedStateType<StreamType> RecognizerSharedStateType;
        typedef StreamType InputType;
        static const bool IsFiltered = true;
    private:
        <recognizer.grammar.delegates>
        <recognizer.grammar.delegators>
        <scopes: {it | <if(it.isDynamicGlobalScope)> <globalAttributeScopeDecl(it)> <endif> }>
        <rules: {r | <if(r.ruleDescriptor.ruleScope)> <ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)> <endif> }>
        <@members>
        <@end>
public:
  <name>(InputType* instream<recognizer.grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>}>);
  <name>(InputType* instream, RecognizerSharedStateType* state<recognizer.grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>}>);

  void init(InputType* instream <recognizer.grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>}>);

  <actions.(actionScope).context>

  <if(LEXER)>
    <if(recognizer.filterMode)>
      void memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart);
      bool alreadyParsedRule(ANTLR_MARKER ruleIndex);
      <filteringNextToken>()
    </ifend>
    <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)> m<r.ruleDescriptor.name>( <r.ruleDescriptor.parameterScope:parameterScope()>);<endif>}; separator="\n">
  </ifend>
  <rules:{r | <if(!LEXER)><headerReturnScope(ruleDescriptor=r.ruleDescriptor)>}
    <rules:{r | <if(!r.ruleDescriptor.isSynPred) <headerReturnType(ruleDescriptor=r.ruleDescriptor)>}
      <r.ruleDescriptor.name> (<r.ruleDescriptor.parameterScope:parameterScope()>); <endif>}; separator="\n">
  </ifend>

  <if(!LEXER)>
    <rules:{r | <headerReturnScope(ruleDescriptor=r.ruleDescriptor)>}
      <rules:{r | <if(!r.ruleDescriptor.isSynPred) <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(anslr3::ClassForwarder< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope()>); void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope()>);<endif>}; separator="\n">
  </ifend>

  // Delegated rules
  <recognizer.grammar.delegatedRules:{ruleDescriptor| <headerReturnType(ruleDescriptor=r.ruleDescriptor)>}
    <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>;); separator="\n"
  </endif>

  const char * getGrammarFileName();
  void reset();
  ~<name>();

  // Function prototypes for the constructor functions that external translation units
  // such as delegators and delegates may wish to call.
extern ANTLR UINT8* recognizer.grammar.composite.rootGrammar.recognizerName TokenNames[];

/* End of token definitions for <name>
* =================================================================================
*/

<endNamespace(actions)>

#ifndef

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

grammarType() ::= <%
<if(PARSER)>
parser
<endif>

<if(LEXER)>
lexer
<endif>

<if(TREE_PARSER)>
tree parser
<endif>
%
>

componentType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType
<endif>

<if(LEXER)>
<name>ImplTraits::LexerType
<endif>

<if(TREE_PARSER)>
<name>ImplTraits::TreeParserType
<endif>
>>

componentBaseType() ::= <%
<if(PARSER)>
<name>ImplTraits::BaseParserType
<endif>

<if(LEXER)>
<name>ImplTraits::BaseLexerType
<endif>

<<
streamType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType::StreamType
<endif>
<if(LEXER)>
<name>ImplTraits::LexerType::StreamType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::TreeParserType::StreamType
<endif>
>>

mainName() ::= <%
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
%>

headerReturnScope(ruleDescriptor) ::= "<returnScope(scope=ruleDescriptor.returnScope)>"

headerReturnType(ruleDescriptor) ::= <%
<if(LEXER)>
<if(!ruleDescriptor.isSynPred)>
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
%>

// Produce the lexer output
//
lexer( grammar,
using namespace antlr3;

<beginNamespace(actions)>

<if(filterMode)>

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering * lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather * than just BACKTRACKING. In some cases this might generate code akin to: * if (BACKTRACKING) if (BACKTRACKING > 1) memoize. */
void <name>::memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart)
{
BaseType* base = this;
if ( this->get_backtracking() > 1 )
base->memoize( ruleIndex, ruleParseStart );

}

bool <name>::alreadyParsedRule(ANTLR_MARKER ruleIndex)
{
BaseType* base = this;
if ( this->get_backtracking() > 1 )
return base->haveParsedRule(ruleIndex);
return false;
}

<endif>

/* ========================================================================= * Lexer matching rules end. * ========================================================================= */
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>
RuleMemoType* rulememo = this->getRuleMemo();
if(rulememo != NULL)
{
    delete rulememo;
    this->setRuleMemo(NULL);
}
#endif
#if(grammar.directDelegates)
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
#if(grammar.directDelegates:
    [g| m_<g:delegateName()>->set_lexstate(NULL);
     delete m_<g:delegateName>(); ]; separator="\n"
#endif
}

void
<name>::reset()
{
    this->get_rec()->reset();
}

/** rief Name of the grammar file that generated this code
* /
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code.
* /
const char* <name>::getGrammarFileName()
{
    return fileName;
}

/** rief Create a new lexer called <name>
* *
* \param[in]  instream Pointer to an initialized input stream
* \return *
* - Success p<name> initialized for the lex start
* - Fail NULL
* /
<name>::<name>(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
    :ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, NULL)
{
    // See if we can create a new lexer with the standard constructor
    //
this->init(instream <grammar.delegators:{gl <g:delegateName()}>);
}

/** 
 * Create a new lexer called <name>
 *
 * \param[in] instream Pointer to an initialized input stream
 * \param[state] state Previously created shared recognizer stat
 * \return
 * - Success p<name> initialized for the lex start
 * - Fail NULL
 */
<name>::<name>(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
:name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, state)
{
this->init(instream <grammar.delegators:{gl <g:delegateName()}> );
}

void <name>::init(StreamType* instream<grammar.delegators:{gl <g.recognizerName>* <g:delegateName()>}>)
{
/* -------------------------------------------------------------------
 * Memory for basic structure is allocated, now to fill in
 * in base ANTLR3 structures. We initialize the function pointers
 * for the standard ANTLR3 lexer function set, but upon return
 * from here, the programmer may set the pointers to provide custom
 * implementations of each function.
 * *
 * We don't use the macros defined in <name>.h here so you can get a sense
 * of what goes where.
 * */

<if(memoize)>
<if(grammar.grammarIsRoot)>
    // Create a LIST for recording rule memos.
    //
    this->setRuleMemo( new IntTrie(15) ); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

<if(grammar.directDelegates)>
    // Initialize the lexers that we are going to delegate some
    // functions to.
    //
    <grammar.directDelegates:
        {glm_<g:delegateName()> = new <g.recognizerName>(instream, this->get_lexstate(),
        this<grammar.delegators:{gl <g:delegateName()}>);}; separator=\"n\"}
<endif>
<if(grammar.delegators)>

// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.

<grammar.delegators:
  {g | m_<g:delegateName>() = <g:delegateName>();}; separator="\n">
<endif>
}

<if(cyclicDFAs>

/* =========================================================================
 * DFA tables for the lexer
 */
<cyclicDFAs:cyclicDFA()<! dump tables for all DFA !>
/* =========================================================================
 * End of DFA tables for the lexer
 */
<endif>

/* =========================================================================
 * Functions to match the lexer grammar defined tokens from the input stream
 */

<rules; separator="\n\n">

/* =========================================================================
 * Lexer matching rules end.
 */
<if(synpreds>

/* =========================================================================
 * Lexer syntactic predicates
 */
<synpreds:{p | <lexerSynpred(predname=p)>}>
/* =========================================================================
 * Lexer syntactic predicates end.
 */
<endif>

/* End of Lexer code
 */
<endNamespace(actions)>
filteringNextToken() ::= <<
<name>ImplTraits::CommonTokenType*
<name>ImplTraits::TokenSourceType::nextToken()
{
    LexerType* lexer;
    typename LexerType::RecognizerSharedStateType* state;

    lexer = this->get_super();
    state = lexer->get_lexstate();

    /* Get rid of any previous token (token factory takes care of
     * any deallocation when this token is finally used up.
     */
    state->set_token_present( false );
    state->set_error( false ); /* Start out without an exception*/
    state->set_failedflag( false );

    /* Record the start of the token in our input stream.
    */
    state->set_tokenStartCharIndex( lexer->index() );
    state->set_tokenStartCharPositionInLine( lexer->getCharPositionInLine() );
    state->set_tokenStartLine( lexer->getLine() );
    state->set_text("");

    /* Now call the matching rules and see if we can generate a new token
    */
    for(;;)
    {
        if (lexer->LA(1) == ANTLR_CHARSTREAM_EOF)
        {
            /* Reached the end of the stream, nothing more to do.
            */
            CommonTokenType& toef = m_eofToken;

            toef.set_startIndex(lexer->getCharIndex());
            toef.set_stopIndex(lexer->getCharIndex());
            toef.setLine(lexer->getLine());
            return &toef;
        }

        state->set_token_present(false);
        state->set_error(false); /* Start out without an exception*/
    }
}

ANTLR_MARKER m;
m = this->get_istream()->mark();
state->set_backtracking(1); /* No exceptions */
state->set_failedflag(false);

/* Call the generated lexer, see if it can get a new token together. */
lexer->mTokens();
state->set_backtracking(0);

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if(state->get_failed())
{
lexer->rewind(m);
lexer->consume(); /* advance one char and try again */
}
else
{
lexer->emit(); /* Assemble the token and emit it to the stream */
TokenType& tok = state->get_token();
return &tok;
}
}
}
}

actionGate() ::= "this->get_backtracking()==0"

filteringActionGate() ::= "this->get_backtracking()==1"

/** How to generate a parser */
genericParser( grammar, name, scopes, tokens, tokenNames, rules, numRules,
               bitsets, inputStreamType, superClass,
               labelType, members, rewriteElementType,
               filterMode, ASTLabelType="ImplTraits::TreeType*") ::= <<

using namespace antlr3;
<if(grammar.grammarIsRoot)>
/** brief Table of all token names in symbolic order, mainly used for
 * error reporting.
 */
ANTLR_UINT8* <name>TokenNames[length(tokenNames)+4] = {
   (ANTLR_UINT8*) "\invalid",
   /* String to print to indicate an invalid token */
   (ANTLR_UINT8*) "\EOR",
}
/** rief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code. */
const char* <name>::getGrammarFileName()
{
    return fileName;
}

/** rief Create a new <name> parser and return a context for it. */
* 
* \param[in] instream Pointer to input stream interface.
* 
* \return Pointer to new parser context upon success.
* */
<name>::<name>( StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
    <constructorInitializerType("NULL")>
{
    // See if we can create a new parser with the standard constructor
    // this->init(instream<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** rief Create a new <name> parser and return a context for it. */
* 
* \param[in] instream Pointer to input stream interface.
* 
* \return Pointer to new parser context upon success.
* */
<name>::<name>( StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
    <constructorInitializerType("state")>
{
    this->init(instream<grammar.delegators:{g|, <g:delegateName()>}>);
}

void <name>::init(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)

(ANTLR_UINT8*) "\<DOWN\>",
(ANTLR_UINT8*) "\<UP\>",
<tokenNames:{it |(ANTLR_UINT8*) <it> }; separator="\n">
};
@endef>

@end members>
typedef RecognizerSharedStateType::RuleMemoType RuleMemoType;
this->setRuleMemo( new RuleMemoType(15) ); /* 16 bit depth is enough for 32768 rules! */

// Initialize the lexers that we are going to delegate some
// functions to.

// Install the token table
/* Install the token table
*/
this->get_psrstate()->set_tokenNames( <grammar.composite.rootGrammar.recognizerName>TokenNames );

void <name>::reset()
{
    this->get_rec()->reset();
}

/** Free the parser resources
*/
<name>::~<name>()
{
    /* cleanup
    */
    <if(grammar.directDelegates)>
        // Free the parsers that we delegated to
        // functions to.NULL the state so we only free it once.
        //
/** Return token names used by this <grammarType()>
 * 
 * The returned pointer is used as an index into the token names table (using the token
 * number as the index).
 * 
 * @return Pointer to first char * in the table.
 */
static ANTLR_UINT8** getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

/* Declare the bitsets
 */
<if(cyclicDFAs>)

/* DFA tables for the parser
 */
<cycleDFAs:cyclicDFA()> <! dump tables for all DFA !>

/* End of DFA tables for the parser
 */
<endif>

/* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor|
<returnType()> <name>::<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>)
{
<if(ruleDescriptor.hasReturnValue)>return <endif>m_<ruleDescriptor.grammar:delegateName()>><ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope.attributes:{a|<a.nam
e>}; separator=", "><endif>);
\}}; separator="\n">
<endif>
/* End of parsing rules
* ==============================================
*/
/* ==============================================
* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>}>
/* End of syntactic predicates
* ==============================================
*/
>>
constructorInitializerType(rec_state) ::=<<
<if(PARSER)>
:ImplTraits::BaseParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
<if(TREE_PARSER)>
:ImplTraits::BaseTreeParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
>>
parser(grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
ASTLabelType,
superClass="Parser",

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/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
filterMode,
labelType={<ASTLabelType>},
ASTLabelType="ImplTraits::TreeType*",
superClass="TreeParser",
members={<actions.treeparser.members>}
) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTreeNodeStream*", rewriteElementType="Node", ...)>
<endNamespace(actions)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc,..., just give simplest possible method. Don’t do
* any of the normal memoization stuff in here either; it’s a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
void <name>::m<ruleName>_fragment( <ruleDescriptor.parameterScope:parameterScope()> )
{
<ruleLabelDefs()>
<ruleLabelInitializations()>
<if(trace)>
ANTLR_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n", this->LT(1),failed,this-

...
ANTLR_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n", this->LT(1), failed, this->get_backtracking());

<else>
  <block>
  <endif>

goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: 
}
// $ANTLR end <ruleName>
>>

synpred(predname) ::= <<
bool <name>::msynpred( antlr3::ClassForwarder\< <predname> > ) 
{
    ANTLR_MARKER   start;
    bool  success;

    this->inc_backtracking();
    <@start()>
    start= this->mark();
    this->m<predname>_fragment();  // can never throw exception
    success= !( this->get_failedflag() );
    this->rewind(start);
    <@stop()>
    this->dec_backtracking();
    this->set_failedflag(false);
    return success;
}<<

>>

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
@if(memoize)>
if ( (this->get_backtracking()>0) && (this->haveParsedRule(<ruleDescriptor.index>)) )
{
@if(!ruleDescriptor.isSynPred)
    retval.start = 0;\n
@endif>
@endif>
>>
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if (this->hasException())
{
    goto rule<ruleDescriptor.name>Ex;
}
@if(backtracking)
if (this->hasFailed())
{
    <scopeClean()>
    <@debugClean()>
    return <ruleReturnValue()>
}
@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)
if (this->get_backtracking()>0)
{
    this->set_failedflag( true );
    <scopeClean()>
    return <ruleReturnValue()>
}
@endif
>>

/** How to generate code for a rule. This includes any return type data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**  
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
{returnType()}
:name>::<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)


ANTLR_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", this->LT(1), this->get_backtracking());

<ruleDeclaration()>
<ruleDescriptor.actions.declarations>
<ruleLabelDefs()>
<ruleInitializations()>
<ruleDescriptor.actions.init>
<ruleMemoization(rname=ruleName)>
<ruleLabelInitializations()>

<if(actions.(actionScope).rulecatch)>
try {
<else>
<if(exceptions)>
try {
<endif>
<endif>
<@preamble()>
{
<block>
}
<ruleCleanUp()>

<if(exceptions)>
<ruleDescriptor.actions.after):execAfter()>
<exceptions:{e|<catch(decl=e.decl.action=e.action)<\n}>}
<else>
<if(!emptyRule)>
if (this->hasException())
{
 this->prereporterror();
 this->precover();
 <setErrorReturnValue()>
}
<if(ruleDescriptor.actions.after)>
else
{
 <(ruleDescriptor.actions.after):execAfter()>
}<\n>
<endif>
<if(actions.(actionScope).rulecatch)>
}<actions.(actionScope).rulecatch>
<endif>
<endif>
<endif>

ANTLR_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", this->LT(1), failed, this->get_backtracking());
get_backtracking();
<endif>
<memoize()>
<if(finally)>
<finalCode(finalBlock=finally)>
<endif>
<scopeClean()>
<@postamble()>
return <ruleReturnValue>();
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
<finalBlock>
}
>>
catch(decl,action) ::= <<
/* catch(decl,action)
*/
catch (<e.decl>) {
<e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{returnType()} retval(this);<\n>
<else>
<if(PARSER)>
<name>ImplTraits::RuleReturnValueType _antlr_rule_exit(this);
<endif>
<if(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name>
}>
<endif>
<endif>
<if(memoize)>
ANTLR_MARKER <ruleDescriptor.name>_StartIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
/*
<if(ruleDescriptor.returnScope)
<if(ruleDescriptor.hasMultipleReturnValues)
<ruleDescriptor.returnScope.attributes:{ a | <if(a.initValue)>retval.<a.name> = <a.initValue>;<endif> }>
<else>
<ruleDescriptor.returnScope.attributes:{ a | <if(a.initValue)><a.name> = <a.initValue>;<endif> }>
<endif>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = this->index();<

<ruleDescriptor.useScopes:{it | m_<it>_stack.push(<it>Scope()); }; separator="n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.push(<it.name>Scope()); }; separator="n">

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it |<labelType> <it.label.text> = NULL;}; separator="n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it |ImplTraits::TokenPtrsListType list_<it.label.text>;}; separator="n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="n">
>>

ruleLabelInitializations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)
<if(!ruleDescriptor.isSynPred)
retval.call_start_placeholder();
<endif>
<endif>
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
 :{it |<labelType> <it.label.text> = NULL;}; separator="n"
>
<ruleDescriptor.charLabels:{it |ANTLR_UINT32 <it.label.text>;}; separator="n"
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{it | ImplTraits::InfTrieType<CommonTokenType>* list_<it.label.text>;}; separator="n"
>
>>
lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{it | list_<it.label.text> = new ImplTraits::IntTrieType<CommonTokenType>(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{it | delete list_<it.label.text>;}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this->get_backtracking() > 0 ) { this->memoize(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
<endif>
<endif>
>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>

//  Open Source Used In Crosswork Common EMS Services 4.0.0  8490

<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.call_stop_placeholder();
</if>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{it | m_<it>_stack.pop(); }; separator="\n"> <ruleDescriptor.ruleScope:{it | m_<it.name>_stack.pop(); }; separator="\n"> >>

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules, which do not produce tokens.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
*
* $ANTLR start <ruleName>
* *
* Looks to match the characters the constitute the token <ruleName>
* from the attached input stream.
* *
* *
* \remark
* - lexer->error == true if an exception was thrown.
*/
void <name>::m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
ANTLR_UINT32	_type;
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<lexerRuleLabelDefs()>
<if(trace)>
std::cout "enter <ruleName> '" "(char)this->LA(1"
   " line=" "this->getLine() "":" "this->getCharPositionInLine()
   " failed=" "this->get_failedFlag() "" backtracking=" "this->get_backtracking() 
std::endl;
<endif>
<if(nakedBlock)>
<ruleMemoization(rname=ruleName)>
<lexerRuleLabelInit()>
<ruleDescriptor.actions.init>

<block> \n
---

Open Source Used In Crosswork Common EMS Services 4.0.0 8491
<else>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit()>
  _type    = <ruleName>;

  <ruleDescriptor.actions.init>

  <block>
this->get_lexstate()->set_type(_type);
</block>
  <endif>
  <if(trace)>
std::cout ＜＜ "exit <ruleName> " ＜＜ (char)this->LA(1)
    ＜＜ " line " ＜＜ this->getLine() ＜＜ ":" ＜＜ this->getCharPositionInLine()
    ＜＜ " failed=" ＜＜ this->get_failedflag() ＜＜ " backtracking=" ＜＜ this->get_backtracking() ＜＜ std::endl;
    <endif>
  <ruleCleanUp()>
  <lexerRuleLabelFree()>
  </(ruleDescriptor.actions.after):execAfter()>
  <memoize>
}
// $ANTLR end <ruleName>
>

/** How to generate code for the implicitly-defined lexer grammar rule
*  that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
*  wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
*/
void <name>::mTokens()
{
    <block><

go to ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
    }
}

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>;<description>
{
int alt<decisionNumber> = <maxAlt>;
<decls>
  @@predecision()
  <decision>
  @@postdecision()
  @@prebranch()
  switch (alt<decisionNumber>)
  { 
  <alts:{a | <altSwitchCase(i,a)>}> 
  } 
  @@postbranch()
  }
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  
  ANTLR_UINT32 alt<decisionNumber>;

  alt<decisionNumber> = <maxAlt>;

  <decls>
  @@predecision()
  <decision>
  @@postdecision()
  switch (alt<decisionNumber>)
  { 
  <alts:{a | <altSwitchCase(i,a)>}> 
  } 
  } 
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>::<description>
  <decls>
  @@prealt()
  <alts>
  @@postalt()
  >>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>::<description>
  <decls>
  @@prealt()
  <alts>
/* A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptor)
   ::= <<
   // <fileName>::<description>
   {
   int cnt<decisionNumber>=0;
   <decls>
   <@preloop()>
   for (;;)
   {
   int alt<decisionNumber>=<maxAlt>;
   <@predecision()>
   <decision>
   <@postdecision()>
   switch (alt<decisionNumber>)
   {
   <alts:{a | <altSwitchCase(i,a)>}>
   default:
   if ( cnt<decisionNumber> >= 1 )
   {
   goto loop<decisionNumber>;
   }
   <ruleBacktrackFailure()>
   <earlyExitEx()>
   <@earlyExitException()>
   goto rule<ruleDescriptor.name>Ex;
   }
   cnt<decisionNumber>++;
   }
   loop<decisionNumber>: /* Jump to here if this rule does not match */
   <@postloop()>
   }
   >>

earlyExitEx() ::= <<
/* mismatchedSetEx() */
new ANTLR_Exception< ImplTraits, EARLY_EXIT_EXCEPTION, StreamType>( this->get_rec(), "" );
<@un>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/* A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
<decls>

}@preloop()
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
}@predecision()
<decision>
}@postdecision()
switch (alt<decisionNumber>)
{
<alts:{a | <altSwitchCase(i,a)>}}
default:
    goto loop<decisionNumber>;/* break out of the loop */
    break;
}
}
loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
}@postloop()
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch */
* does the jump to the code that actually matches that alternative. */
altsSwitchCase(altNum,alt) ::= <<
    case <altNum>:
    }@prealt()
    <alt>
     break;\n>
>>

/** An alternative is just a list of elements; at outermost level */
alts(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{  
  .twitter-body\n   \n   \n   \n   // ELEMENTS
   /** What to emit when there is no rewrite. For auto build
   * mode, does nothing.
   */
   noRewrite(rewriteBlockLevel, treeLevel) ::= ""

   /** Dump the elements one per line */
   element(e) ::= <<
      <@prematch()>
      <e.el><\n>
   >>

   /** match a token optionally with a label in front */
   tokenRef(token,label,elementIndex,terminalOptions) ::= <<
      <if(label)><label> = this->matchToken(<token>, &FOLLOW_<token>_in_<ruleName><elementIndex>);
      <checkRuleBacktrackFailure()>
   >>

   /** ids+=ID */
   tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
      <tokenRef(...)
      <listLabel(elem=label,...)>
   >>

   listLabel(label,elem) ::= <<
      list_<label>.push_back(<elem>);
   >>

   /** match a character */
   charRef(char,label) ::= <<
      <if(label)>
      <label> = this->LA(1);<\n>
      <endif>
      this->matchc(<char>);
      <checkRuleBacktrackFailure()>
   >>

   /** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = this->LA(1); <\n>
  <endif>
this->matchRange(<a>, <b>);
<checkRuleBacktrackFailure()> >>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
  <if(label)>
  <if(LEXER)>
  <label> = this->LA(1); <\n>
  <else>
  <label> = (<labelType>) this->LT(1); <\n>
  <endif>
  <endif>
  if ( <s> )
  {
    this->consume();
    <postmatchCode>
    <if(!LEXER)>
    this->set_perror_recovery(false);
    <endif>
    <if(backtracking)>
    this->set_failedflag(false);
    <endif>
  }
  else
  {
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
    <if(LEXER)>
    this->recover();
    <else>
    <! use following code to make it recover inline;
    this->recoverFromMismatchedSet(&FOLLOW_set_in_<ruleName><elementIndex>); !>
    <endif>
    goto rule<ruleDescriptor.name>Ex;
  }
  >>

mismatchedSetEx() ::= <<
new ANTLR_Exception\<ImplTraits, MISMATCHED_SET_EXCEPTION, StreamType>( this->get_rec(), """);
<if(PARSER)>
this->get_exception()->set_expectingSet(NULL);
<! use following code to make it recover inline;
this->get_exception()->set.expectingSet( &FOLLOW_set_in_<ruleName><elementIndex> );
!
<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<<
<matchSet(...)>
$listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
ANTLR_MARKER <label>Start = this->getCharIndex();
ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
this->matchs(<string>);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType;
<label>->set_type( CommonTokenType::TOKEN_INVALID );
<label>->set_startIndex( <label>Start);
<label>->set_stopIndex( this->getCharIndex()-1);
<label>->set_input( this->get_input() );
<label>->set_line( <label>StartLine<elementIndex> );
<label>->set_charPositionInLine( <label>StartCharPos<elementIndex> );
<else>
this->matches(<string>);
<checkRuleBacktrackFailure()>

<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)this->LT(1);<
<endif>
this->matchAnyToken();
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)> 
$listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
this->followPush(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>m_<scope:delegateName()>-><endif><rule.name>(<if(args)><args;
separator=", "><endif>);<
this->followPop();
<checkRuleBacktrackFailure()>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
ANTLR_MARKER <label>Start<elementIndex> = this->getCharIndex();
ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
<if(scope)>m_<scope:delegateName>()-><endif>m<rule.name>(<if(scope)>m_<scope:delegateName()><endif>
<if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType();
/* */
</if(label>
}
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(...)>
  <listLabel(elem=label,...)>
>>

lexerMatchEOF(label,elementIndex) ::= <<
  {ANTLR_UINT32 <label>Start<elementIndex>;
   ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
   ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
   <labelType> <label>;
   <label>Start<elementIndex> = this->getCharIndex();
   this->matchc(ANTLR_CHARSTREAM.EOF);
   <checkRuleBacktrackFailure()>
   <label> = new CommonTokenType();
   <label>->set_type( CommonTokenType::TOKEN_EOF );
   <label>->set_startIndex(<label>Start<elementIndex>);
   <label>->set_stopIndex(this->getCharIndex()-1);
   <label>->set_input( this->get_input() );
   <label>->set_line( <label>StartLine<elementIndex> );
   <label>->set_charPositionInLine( <label>StartCharPos<elementIndex> );
  }
  <else>
    this->matchc(ANTLR_CHARSTREAM.EOF);
    <checkRuleBacktrackFailure()>
  </endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int recRuleArg()"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg() \< opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=<$src>.<name>;"

/** match ^<root children> in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
;if(nullableChildList)
if ( this->LA(1)==CommonTokenType::TOKEN_DOWN ) {
    this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    this->matchToken(CommonTokenType::TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
}
<else>
this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
this->matchToken(CommonTokenType::TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is *
  * also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) )
{
    <ruleBacktrackFailure()>
    <newFPE(...)>
}
>>

newFPE() ::= <<<
ExceptionBaseType* ex = new ANTLR_Exception\< <name>ImplTraits, FAILED_PREDICATE_EXCEPTION, StreamType>( this->get_rec(), "<description>" );
ex->set_ruleName( "<ruleName>" );
<un>
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

{ int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
<edges; separator="\nelse ">
else
{
@if(eotPredictsAlt)
    alt<decisionNumber>=<eotPredictsAlt>;
@else

    <ruleBacktrackFailure()>

    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;

@endif
}
}

newNVException() ::= <<
   ExceptionBaseType* ex = new ANTLR_Exception<ImplTraits, NO_VIABLE_ALT_EXCEPTION, StreamType>( this->get_rec(), "<description>" );
   ex->set_decisionNum( <decisionNumber> );
   ex->set_state( <stateNumber> );
@noViableAltException()>
</u>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
    <edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for (\'a\')* on the end of a rule
 * anything other than \'a\' predicts exiting.
 */
dfaLoopbackStateDecl():= <<
ANTLR_UINT32   LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
/** dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) */
int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
}>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

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* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

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/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

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/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

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* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

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/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k>) )
{
<edges; separator="\n">, separator="\nother">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVException()>

"** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
    <targetState>
}
>>
goto rule<ruleDescriptor.name>Ex:<
<endif>
}

// Cyclic DFA
/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(this, this->get_rec(), this->get_istream(),
cdfa<decisionNumber> );
<checkRuleBacktrackFailure()>
>>
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
 *  <dfa.description>
 */
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
 { <dfa.eot; wrap="\n", separator="", null="-1"> }
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
 { <dfa.eof; wrap="\n", separator="", null="-1"> }
static const ANTLR_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
 { <dfa.min; wrap="\n", separator="", null="-1"> }
static const ANTLR_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
 { <dfa.max; wrap="\n", separator="", null="-1"> }
static const ANTLR_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
 { <dfa.accept; wrap="\n", separator="", null="-1"> }
static const ANTLR_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
 { <dfa.special; wrap="\n", separator="", null="-1"> }

/** Used when there is no transition table entry for a particular state */
static const ANTLR_INT32* dfa<dfa.decisionNumber>_T_empty = NULL;
<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR_INT32 dfa<dfa.decisionNumber>_T<i0>[]> =
 { <table; separator="", wrap="\n", null="-1"> \n};

/** Transition tables are a table of sub tables, with some tables
 * reused for efficiency. */
static const ANTLR_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
 { <dfa.transitionEdgeTables:{xref|dfa<dfa.decisionNumber>_T<xref>}; separator="", wrap="\n", null="NULL"> };

---

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/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber> */
class <name>CyclicDFA<dfa.decisionNumber> : public CyclicDFA< <name>ImplTraits, <name> >, public <name>Tokens
{
public:
typedef CyclicDFA< <name>ImplTraits, <name> > BaseType;
typedef BaseType::ContextType CtxType;
private:
<if(dfa.specialStateSTs)>
//to maintain C-Target compatibility, we need to make some of ctx functions look like member funcs
CtxType* m_ctx;
<endif>
public:
<name>CyclicDFA<dfa.decisionNumber>( ANTLR_INT32
decisionNumber
 , const ANTLR_UCHAR*description
 , const ANTLR_INT32* consteot
 , const ANTLR_INT32* consteof
 , const ANTLR_INT32* constmin
 , const ANTLR_INT32* constmax
 , const ANTLR_INT32* constaccept
 , const ANTLR_INT32* constspecial
 , const ANTLR_INT32* const *consttransition)
:BaseType( decisionNumber, description, eot, eof, min, max, accept, special, transition )
{
<if(dfa.specialStateSTs)>
m_ctx = NULL;
<endif>
}

<if(dfa.specialStateSTs)>
ANTLR_UINT32 LA(ANTLR_INT32 i)
{
 return m_ctx->LA(i);
}

<if(PARSER)>
const CtxType::CommonTokenType* LT(ANTLR_INT32 k)
{
 return m_ctx->LT(k);
}
<endif>
<if(synpreds)>
template<typename PredType>
bool msynpred( PredType pred )
{
  return m_ctx->msynpred(pred);
}
@endif

ANTLR_INT32 specialStateTransition(CtxType * ctx, RecognizerType* recognizer, IntStreamType* is, ANTLR_INT32 s)
{
  ANTLR_INT32 _s;

  m_ctx = ctx;
  _s = s;
  switch (s)
  {
    <dfa.specialStateSTs:{state |
    case <i0>:;
    <state> ]; separator="\n">
  }
  <if(backtracking)>
    if ( ctx->get_backtracking() > 0)
    {
      ctx->set_failedflag( true );
      return -1;
    }
  <endif>
  ExceptionBaseType* ex = new ANTLR_EXCEPTION< ImplTraits, NO_VIABLE_ALT_EXCEPTION, StreamType>( recognizer, "<dfa.description>");
  ex->set_decisionNum( <dfa.decisionNumber> );
  ex->set_state(_s);
  <@noViableAltException()>
  return -1;
  }
@endif

static <name>CyclicDFA<dfa.decisionNumber> cdfa<dfa.decisionNumber>(
  <dfa.decisionNumber>, /* Decision number of this dfa */
  /* Which decision this represents: */
  (const ANTLR_UCHAR*)"<dfa.description>",
  dfa<dfa.decisionNumber>_eot, /* EOT table */
  dfa<dfa.decisionNumber>_eof, /* EOF table */
  dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
  dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
  dfa<dfa.decisionNumber>_accept,/* Accept table */
  dfa<dfa.decisionNumber>_special,/* Special transition states */
}
dfa<dfa.decisionNumber>_transitions/* Table of transition tables */

);

/* End of Cyclic DFA <dfa.decisionNumber>
*  ---------------------
*/

/** A state in a cyclic DFA; it's a special state and part of a big switch on
*  state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;<
ANTLR_MARKER index<decisionNumber>_<stateNumber>;<
LA<decisionNumber>_<stateNumber> = ctx->LA(1);<
if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = ctx->index();<
ctx->rewindLast();<
if(semPredState) <! return input cursor to state before we rewound !>
ctx->seek(index<decisionNumber>_<stateNumber>);<
}
ANTLR UINT32 s = -1;
<edges; separator="\nelse">
if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = ctx->index();<
ctx->rewindLast();<
if(semPredState) <! return input cursor to state before we rewound !>
ctx->seek(index<decisionNumber>_<stateNumber>);<
if ( s>=0 )
{ return s;
}
break;
}>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
*  state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (labelExpr) <if(predicates)>&& (<predicates>)<endif> )
{
  s = <targetStateNumber>;
}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
*  always jump to the target.*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber>;
   
>>

// D F A E X P R E S S I O N S

andPredicates(left, right) ::= "((<left>) && (<right>))"

orPredicates(operands) ::= "((operands:{o}|(<o>); separator="\|\")"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}))"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "this->msynpred(antlr3::ClassForwarder\<<pred>>())"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_stateNumber == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly. */
isolatedLookaheadTest(atom, k, atomAsInt) ::= "this->LA(<k>) == <atom>"

lookaheadRangeTest(lower, upper, rangeNumber, lowerAsInt, upperAsInt) ::= <%
  ((LA<decisionNumber>_stateNumber >= <lower>) && (LA<decisionNumber>_stateNumber <= <upper>))
%>

isolatedLookaheadRangeTest(lower, upper, rangeNumber, lowerAsInt, upperAsInt) ::= "((this->LA(<k>) >= <lower>) && (this->LA(<k>) <= <upper>))"

setTest(ranges) ::= "<ranges; separator="\|\"">"

// A T T R I B U T E S

makeScopeSet() ::= <<
// makeScopeSet()
*/

/** Definition of the <scope.name> scope variable tracking
* structure. An instance of this structure is created by calling
* <name>_<scope.name>Push(). */

struct <scopeStruct(sname=scope.name,...)>
{
  /*============================================================================
   * Programmer defined variables...
   */

}
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/* end of programmer defined variables
 */
;

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeDef(scope) ::= <<
/* globalAttributeScopeDef(scope) */
<if(scope.attributes)>
StackType\< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name)>;
<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope) */
StackType\< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name,...)>;
<endif>
>>

scopeStruct(sname) ::= <<
<sname>Scope
>>
scopeStack(sname) ::= <<
m_<sname>_stack
>>

returnValueName(r) ::= "<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>::(ruleDescriptor:returnStructName())
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
bool
<endif>
%>

/** Generate the C type associated with a single or multiple return
* value(s).
*/
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
%>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "0".
*/
initValue(typeName) ::= <<
= <cTypeInitMap.(typeName)>
>>
/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
ASTLabelType() ::= "<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>ImplTraits::TreeType*<endif>"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members. */
returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
struct <ruleDescriptor:returnStructName()> : public <name>ImplTraits::RuleReturnValueType
{
public:
 typedef <name>ImplTraits::RuleReturnValueType BaseType;
 <ruleDescriptor:returnStructName()>()
  : BaseType()
  , <scope.attributes:{it | <it.name>() }; separator=","<endif>
  { init(); }
 <ruleDescriptor:returnStructName>()( BaseParserType* parser )
  : BaseType(parser)
  , <scope.attributes:{it | <it.name>() }; separator=","<endif>
  { init(); }
 <ruleDescriptor:returnStructName>()( const <ruleDescriptor:returnStructName()> & other )
  : BaseType(other)
  , <scope.attributes:{it | <it.name>({other.<it.name>}); separator=","<endif>
  { copy(other); }
~<ruleDescriptor:returnStructName>()()
{
  @{ruleReturnMembersDelete()}
}

<ruleDescriptor:returnStructName>() &
operator=( const <ruleDescriptor:returnStructName>() & other )
{
  BaseType::operator=( other );
  <if(scope)> <scope.attributes:{it | <it.name>() = other.<it.name>; }; separator="\n"<endif>
  copy(other);
 return this;
void init() {
    <@ruleReturnMembersInit()>}

void copy(const <ruleDescriptor:returnStructName()>& other) {
    <@ruleReturnMembersCopy()>}

public:

<name>ImplTraits::<recognizer.ASTLabelType>       start;
<name>ImplTraits::<recognizer.ASTLabelType>       stop;

<ruleDescriptor:returnStructName()>( const <ruleDescriptor:returnStructName()>& other )
{<scope.attributes>
    start = other.start;
    stop  = other.stop;
}<scope.attributes>

<ruleDescriptor:returnStructName()>&
operator=( const <ruleDescriptor:returnStructName()>& other )
{
    start = other.start;
    stop  = other.stop;

    <scope.attributes>
    return *this;
    </scope.attributes>
}<scope.attributes>

<<
<scope.attributes>{it | <it.name> = other.<it.name>; }; separator="\n"
return *this;
</scope.attributes>

if(scope)

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
if(negIndex)>

parameterScope(scope) ::= <<
<scope.attributes>{it |<it.decl>}; separator="", }

>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name> 
<else>
<if(index)>
 m_<scope>_stack.at(<index>).<attr.name>
<else>
 m_<scope>_stack.peek().<attr.name>
<endif>
<endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
 m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name> = <expr>; 
<else>
<if(index)>
 m_<scope>_stack.at(<index>).<attr.name> = <expr>; 
<else>
 m_<scope>_stack.peek().<attr.name> =<expr>; 
<endif>
<endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers 
* to stack itself not top of stack. This is useful for predicates 
* like {$function.size()>0 && $function::name.equals("foo")}? 
*/
isolatedDynamicScopeRef(scope) ::= "<<scope>_stack"

 /**< * reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>
<endif>
>>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {#ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->get_tree())"
tokenLabelPropertyRef_int(scope,attr) ::= "(ImplTraits::ConvertToInt32(<scope>->getText()))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(this->get_strstream())->toStringSS(<scope>.start, <scope>.start))
<else>
(this->get_strstream())->toStringTT(<scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= " retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    this->get_input()->toStringSS( this->get_adaptor()->getTokenStartIndex(retval.start), this->get_adaptor()->
    getTokenStopIndex(retval.start))
  <else>
    this->get_stream()->toStringTT(retval.start, this->LT(-1))
  <endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "this->getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "this->get_state()->get_tokenStartLine()"
lexerRulePropertyRef_pos(scope,attr) ::= "this->get_state()->get_tokenStartCharPositionInLine()"
lexerRulePropertyRef_channel(scope,attr) ::= "this->get_state()->get_channel()"
lexerRulePropertyRef_start(scope,attr) ::= "this->get_state()->get_tokenStartCharIndex()"
lexerRulePropertyRef_stop(scope,attr) ::= "(this->getCharIndex()-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "(<name>ImplTraits::ConvertToInt32(<scope>->getText()))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= <<
  {
    <action>
  }
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if ( <actions.(actionScope).synpredgate> )
      {
        <action>
      }
    <else>
      if ( BACKTRACKING == 0 )
      {
        <action>
      }
    <endif>
  <endif>
// M I S C (properties, etc...)

bitsetDeclare(bitsetname, words64, traits) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR_BITWORD <bitsetname>_bits[] = { <words64:[it |ANTLR_UINT64_LIT(<it>)]}; separator=",” };
static <traits>::BitsetListType <bitsetname>(<bitsetname>_bits, <length(words64)>);
>>

codeFileExtension() ::= ".cpp"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Cpp/Cpp.stg

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
group AST;

@outputFile.imports() ::= <<
  @@super.imports() @@if(!TREE_PARSER)@@ ! parser would already have imported !!
  Antlr.Runtime.Tree,@@<<
  @@endif
>>

@genericParser.members() ::= <<
  @@super.members()>
  <parserMembers()>
>>

@genericParser.membersConstructor() ::= <<
  @@super.membersConstructor()>
  <parserMembersConstructor()>
>>

@genericParser.membersImplementation() ::= <<
  @@super.membersImplementation()>
  <parserMembersImplementation()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  strict protected
  FAdaptor: ITreeAdaptor;
  procedure SetAdaptor(const Value: ITreeAdaptor);
  property Adaptor: ITreeAdaptor read FAdaptor;
  public
  property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;
>>

parserMembersConstructor() ::= <<
  FAdaptor := TCommonTreeAdaptor.Create;
>>

parserMembersImplementation() ::= <<
  procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
  begin
  FAdaptor := Value;
  <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>
  end;
>>

@returnScope.ruleReturnMembers() ::= <<
  function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
  begin
procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()> .SetTree(const Value: IANTLRInterface);
begin
  FTree := Value as I<ASTLabelType>;
end;

>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
  strict private
  FTree: I<ASTLabelType>;
  protected
  { IRuleReturnScope }
  function GetTree: IANTLRInterface; override;
  procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  Root[0] := nil;
>>

ruleDeclarationVars() ::= <<
  <super.ruleDeclarationVars()>
  Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels:{<it.label.text>_tree := nil;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{<it.label.text>_tree := nil;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites:{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>');}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites:{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>');}; separator="\n">
>>

ruleLabelDefVars() ::= <<
  <super.ruleLabelDefVars()>
  <ruleDescriptor.tokenLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables:
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)
@if(!rewriteMode)>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
@endif>
@endif>
@endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
@if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as I RewriteRuleElementStream).Add(<label>);
<<
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. 
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)> 
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as I RewriteRuleElementStream).Add(<label>);
<<
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)> 
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<label>.Tree;<

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...>)
<label>.Tree;<

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<label>.Tree;<

// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements:  <referencedElementsDeep; separator=", ">
// token labels:  <referencedTokenLabels; separator=", ">
// rule labels:  <referencedRuleLabels; separator=", ">
// token list labels:  <referencedTokenListLabels; separator=", ">
// rule list labels:  <referencedRuleListLabels; separator=", ">
// if (backtracking) begin
if (State.Backtracking = 0) then
begin
<endif>

<prevRuleRootRef>.Tree := Root[0];
<rewriteCodeLabels>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER>)
<if(rewriteMode>)
<prevRuleRootRef>.Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
    adaptor.GetChildIndex(retval.Start),
    adaptor.GetChildIndex(_last),
    retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER>)
<prevRuleRootRef>.Tree := Root[0];
<endif>
<if(!rewriteMode>)
<prevRuleRootRef>.Tree := Root[0];
<endif>
<if(backtracking>)
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);}; separator="\n"
>
<referencedTokenListLabels
    :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>', list_<it>);}; separator="\n"
>
<referencedRuleLabels:
    if Assigned(<it>) then
        Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)
    else
        Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil);}; separator="\n"
<referencedRuleListLabels
    :{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);}; separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.

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rewriteOptionalBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements,     // elements in immediately block; no nested blocks
description) ::= <<
(* <fileName>:<description> *)
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") then
begin
<alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<
>}>>>

rewriteClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements,     // elements in immediately block; no nested blocks
description) ::= <<
(* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">) do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<
>}>>>

rewritePositiveClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements,     // elements in immediately block; no nested blocks
description) ::= <<
if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">))) then
raise ERewriteEarlyExitException.Create(');

while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ">) do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<
>}>>>
rewriteAlt(a) ::= <<
(* <a.description> *)
<if(a.pred)>
if (<a.pred>) then
begin
<a.alt>
end\n
<else>
begin
<a.alt>
end;\n
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
<root:rewriteElement()>
<children:rewriteElement()>
Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;\n
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);\n
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());\n
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<

>>
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode);

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode(), Root[<treeLevel>]) as I<ASTLabelType>;
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as I<ASTLabelType>;
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...>), Root[<treeLevel>]) as I<ASTLabelType>;
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of Root[0] right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;
>>
rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>);<\n>
>>
rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>
createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
T<terminalOptions.node>.Create(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
Adaptor.CreateNode(<tokenType>, <args; separator=", "><if(!args)>'<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>
createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>,
<args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
Adaptor.Create(<token>, <args; separator=", ">)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode

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*/

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/codegen/templates/Delphi/AST.stg
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/*
* [The "BSD license"]
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
        <if(grammar.grammarIsRoot)>
this.adaptor = new DebugTreeAdaptor(dbg.adaptor);
<\else>
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<\endif>
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
}
}<\n>
>
>
parserCtorBody() ::= <<
<super.parserCtorBody()>
>>
createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
DebugListener = proxy;
<inputStreamType> = new Debug<inputStreamType>( input, proxy );
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>
ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>
ctorForProfilingRootGrammar.finally() ::=<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
>>
ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"
ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>
//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

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 */

/** The API version of the runtime that recognizers generated by this runtime
 *  need.
 */
apiVersion() ::= "1"

/** The overall file structure of a recognizer; stores methods for rules
 *  and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           numScore, scoreMethod, scoreType, score,
           numStates, stateBitset, stateTable, stateBitsets,
           numSymbols, symbolBitset, symbolTable, symbolBitsets,
           numNonterminals, nonterminalBitset, nonterminalTable, nonterminalBitsets,
           numActions, actionBitset, actionTable, actionBitsets,
           numStates, stateBitset, stateTable, stateBitsets,
           numSymbols, symbolBitset, symbolTable, symbolBitsets,
           numNonterminals, nonterminalBitset, nonterminalTable, nonterminalBitsets,
           numActions, actionBitset, actionTable, actionBitsets,
           numStates, stateBitset, stateTable, stateBitsets,
           numSymbols, symbolBitset, symbolTable, symbolBitsets,
           numNonterminals, nonterminalBitset, nonterminalTable, nonterminalBitsets,
           numActions, actionBitset, actionTable, actionBitsets,
           numStates, stateBitset, stateTable, stateBitsets,
           numSymbols, symbolBitset, symbolTable, symbolBitsets,
           numNonterminals, nonterminalBitset, nonterminalTable, nonterminalBitsets,
fileName, ANTLRVersion, generatedTimestamp, trace, 
scop es, superClass, literals) ::= 
<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

::<@imports>
import sys
from antlr3 import *
@if(TREE_PARSER)>
from antlr3.tree import *
@end>
</@end>

<actions.(actionScope).header>
<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator="\n"> 

# token names
tokenNamesMap = {
  0: "\<invalid>", 1: "\<EOR>", 2: "\<DOWN>", 3: "\<UP>",
  <tokens:{it | <it.type>: "<it.name>"}; wrap, separator="", "">
} 
Token.registerTokenNamesMap(tokenNamesMap)

<recognizer>

@if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
@if(LEXER)>
  from antlr3.main import LexerMain
  main = LexerMain(<recognizer.name>)\n@end>

@if(PARSER)>
  from antlr3.main import ParserMain
  main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)\n@end>

@if(TREE_PARSER)>
  from antlr3.main import WalkerMain
  main = WalkerMain(<recognizer.name>)\n@end>
main.stdin = stdin
main.stdout = stdout
main.stderr = stderr
main.execute(argv)

if __name__ == '__main__':
    main(sys.argv)

lexer(grammar, name, tokens, scopes, numRules, filterMode,
    labelType="CommonToken", superClass="Lexer") ::= 
    <if(grammar.directDelegates)>
    # path hack to allow absolute import of related grammars.
    from os.path import dirname
    __path__ = [dirname(__file__)]
    del dirname

    <grammar.directDelegates:
    {g|from .<g.recognizerName> import <g.recognizerName>}; separator="\n"
    <endif>

class <grammar.recognizerName>({@superClassName}<superClass>{@end}):
    <scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}> 
    grammarFileName = "<fileName>"
    api_version = <apiVersion()> 
    def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
        super().__init__(input, state)

    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        self._state.ruleMemo = {}
    <endif>
    <endif>

    <grammar.directDelegates:
    {g|self.<g:delegateName>() = <g.recognizerName>({trunc(g.delegators):{p|p.delegateName()}, }<self, input, state})}; separator="\n"
    <grammar.directDelegates:
    {g|g.delegates:{h|self.<h.delegateName>() = self.<g:delegateName()>.<h.delegateName>()}]; separator="\n"}; separator="\n"
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
  while True:
    if self.input.LA(1) == EOF:
      return self.makeEOFToken()

    self._state.token = None
    self._state.channel = DEFAULT_CHANNEL
    self._state.tokenStartCharIndex = self.input.index()
    self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
    self._state.tokenStartLine = self.input.line
    self._state._text = None
    try:
      m = self.input.mark()
      try:
        # means we won't throw slow exception
self._state.backtracking = 1
try:
    self.mTokens()
finally:
    self._state.backtracking = 0

except BacktrackingFailed:
    # mTokens backtracks with synpred at backtracking==2
    # and we set the synpredgate to allow actions at level 1.
    self.input.rewind(m)
    self.input.consume() # advance one char and try again
else:
    self.emit()
    return self._state.token

except RecognitionException as re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super().memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super().alreadyParsedRule(input, ruleIndex)
    return False

actionGate() ::= "self._state.backtracking == 0"
filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, labelType, members,
    rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
    # token names
tokenNames = [
    "\<invalid\>", "\<EOR\>", "\<DOWN\>", "\<UP\>",

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from os.path import dirname
__path__ = [dirname(__file__)]
del dirname

<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>}; separator="\n">
<endif>

<rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}
class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    grammarFileName = "<fileName>
    api_version = <apiVersion()>
    tokenNames = tokenNames

    def __init__(self<grammar.delegators:{g|, <g:delegateName()}>>, input, state=None, *args, **kwargs):
        if state is None:
            state = RecognizerSharedState()

            @args()
        super().__init__(input, state, *args, **kwargs)

        @if(memoize)
        @if(grammar.grammarIsRoot)
            self._state.ruleMemo = {}
        @endif
        @endif

        <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">
        <scopes:{it | <globalAttributeScopeClass(scope=it)>}<globalAttributeScopeStack(scope=it)>]<ruleAttributeScopeStack(scope=it)>]
        <rules:{it | <ruleAttributeScopeStack(scope=it)>}
        <init>

        <grammar.delegators:
        {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
        <grammar.directDelegates:
        {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>, state))}; separator="\n">
        <grammar.directDelegates:
generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<grammar.delegatedRules: [ruleDescriptor| <delegateRule(ruleDescriptor)>> ; separator="\n">

<synpreds: {p | <synpred(p)>> }>

<cyclicDFAs:cyclicDFA()>

<bitsets: {it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes: {it | <it>}; separator=", "}])>}

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
  <if(ruleDescriptor.hasReturnValue)>return self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)
    <ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "}><endif>)
  <endif>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
  ASTLabelType="Object", superClass="Parser", labelType="Token",
  members=[<actions.parser.members>],
  init=[<actions.parser.init>] ) ::= <<
  <genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, "TokenStream", superClass,
    labelType, members, "Token",
    false, init, ASTLabelType)>
/** How to generate a tree parser; same as parser except the input stream is a different type. */

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, filterMode, labelType=[<ASTLabelType>], ASTLabelType="Object", superClass=[<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>], members=[<actions.treeparser.members>], init=[<actions.treeparser.init>] ) ::= <<
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, "TreeNodeStream", superClass, labelType, members, "Node", filterMode, init, ASTLabelType)>>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc..., just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves. */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope()>):
<ruleLabelDefs()>
<if(trace)>
    self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
        <block>
    finally:
        self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
<else>
    <block>
<endif>
# $ANTLR end "<ruleName>"

>>

synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    <@start()>
    start = self.input.mark()
try:
    self.<name>._fragment()
except BacktrackingFailed:
    success = False
else:
    success = True
self.input.rewind(start)
@@stop()@
self._state.backtracking -= 1
return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue>()
@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)
if self._state.backtracking > 0:
    raise BacktrackingFailed
@endif
>>

/** How to generate code for a rule. This includes any return type
 *  data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start "<ruleName>"
# <fileName>:\<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope>()):
@if(trace)
self.traceIn("<ruleName>", <ruleDescriptor.index>)
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
<@body><ruleBody()><@end>
<@postamble()>
return <ruleReturnValue()>

# $ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
@if(memoize)
@if(backtracking)
success = False
<endif>
<endif>
@try:
@try:
<ruleMemoization(name=ruleName)>
[block]
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>

@if(memoize)@
@if(backtracking)@
success = True
@end
@end
@if(exceptions)@
@else@
@if(!emptyRule)@
@if(actions.(actionScope).rulecatch)@
actions.(actionScope).rulecatch
@else@
except RecognitionException as re:
    self.reportError(re)
    self.recover(self.input, re)
    #@setErrorReturnValue()@
@end@
@else@
finally:
    pass
finally:
    <if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <memoize()>
    ruleScopeCleanUp()
    <finally>
    pass
    </>

    catch(decl,action) ::= <<
    except <e.decl>:
        <e.action>
    >>

    ruleDeclarations() ::= <<
    <if(ruleDescriptor.hasMoreMultipleReturnValues)>
    retval = self.<ruleDescriptor.name>_return()
    retval.start = self.input.LT(1)
    <elseif(ruleDescriptor.returnScope)>
    <ruleDescriptor.returnScope.attributes:{ a | <a.name> = <if(a.initValue)><a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None<endif> | <a.initValue><else>None< endif>
    </if(memoize))>
    <ruleDescriptor.name>_StartIndex = self.input.index()
    <endif>
    </>

    ruleScopeSetUp() ::= <<
    <ruleDescriptor.useScopes:{it | self.<it>_stack.append(<it>_scope())}; separator="\n">
    <ruleDescriptor.ruleScope:{it | self.<it.name>_stack.append(<it.name>_scope())}; separator="\n">
    >>

    ruleScopeCleanUp() ::= <<
    <ruleDescriptor.useScopes:{it | self.<it>_stack.pop()}; separator="\n">
    <ruleDescriptor.ruleScope:{it | self.<it.name>_stack.pop()}; separator="\n">
    >>

    ruleLabelDefs() ::= <<
    {[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
    ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
    :{it | <it.label.text> = None}; separator="\n"}
lexerRuleLabelDefs() ::= <<
[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:[it | list_<it.label.text> = None]; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{it | <it.label.text> = None}; separator="\n">
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
<endif>
<endif>
>>
// ** How to generate a rule in the lexer; naked blocks are used for
// fragment rules.

lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
  # $ANTLR start "<ruleName>
  def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
    <if(trace)>
      self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <if(memoize)>
      <if(backtracking)>
        success = False
      <endif>
    <endif>
    try:
      <if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
      <else>
        _type = <ruleName>
        _channel = DEFAULT_CHANNEL

        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        self._state.type = _type
        self._state.channel = _channel
        <(ruleDescriptor.actions.after):execAction()>
      <endif>
      <if(memoize)>
      <if(backtracking)>
        success = True
      <endif>
    <endif>
  <endif>
  <if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
  <endif>
**How to generate code for the implicitly-defined lexer grammar rule
that chooses between lexer rules.**

tokensRule(ruleName,nakedBlock, args, block, ruleDescriptor) ::= <<
def mTokens(self):
    <block><

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
@admin>blockBody()</@end>
>>

blockBody() ::= <<
@admin>predecision()
@admin>decision</@end>
@admin>postdecision()
@admin>prebranch()
<alts:{a | <altSwitchCase(i, a)>}; separator="\nel">
@admin>postbranch()
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
@admin>predecision()
@admin>decision</@end>
@admin>postdecision()
<alts:{a | <altSwitchCase(i, a)>}; separator="\nel">
>>
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:\<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:\<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:\<description>
  cnt<decisionNumber> = 0
  <decls>
  <@preloop()>
  <@loopBody>
  <positiveClosureBlockLoop()>
  <@end>
  <@postloop()>
>>

positiveClosureBlockLoop() ::= <<
  while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  <@predecision()>
  <@decisionBody><decision><@end>
  <@postdecision()>
  <alts:{a | <altSwitchCase(i, a)>}; separator="\n"> else:
    if cnt<decisionNumber> >= 1:
      break #loop<decisionNumber>
    <ruleBacktrackFailure()>
    eee = EarlyExitException(<decisionNumber>, self.input)
    <@earlyExitException()>
    raise eee
    cnt<decisionNumber> += 1


positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    <decls>
    #@preloop()  
    #@loopBody
    <closureBlockLoop()>
    #@end
    #@postloop()  
>>

closureBlockLoop() ::= <<
    while True: #loop<decisionNumber>
        alt<decisionNumber> = <maxAlt>
        #@predecision()  
        #@decisionBody<decision><@end
        #@postdecision()  
        <alts:{a | <altSwitchCase(i, a)>}; separator="\nel">
        else:
            break #loop<decisionNumber>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
    if alt<decisionNumber> == <altNum>:
        #@prealt()  
        <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)><label> = <endif>self.match(self.input, <token>, self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = self.input.LA(1)<\n>
  <endif>
  self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode=",",terminalOptions={}) ::= <<
  <if(label)>
  <label> = self.input.LT(1)<\n>
  <endif>
  if <s>:
    self.input.consume()
    <postmatchCode>
    <if(!LEXER)>
      self._state.errorRecovery = False<\n>
    <endif>
  else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
    <if(LEXER)>
      self.recover(mse)
      raise mse
    <else>
      raise mse
    <! use following code to make it recover inline; remove throw mse;>
    self.recoverFromMismatchedSet(
      self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
    )
    !>
  <ENDIF>
  <\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  <label>Start = self.getCharIndex()
self.match(<string>)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>.Start, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(<string>)
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny()
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>  
<labelLabel(label,label)>  
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>  
<labelLabel(label, label)>  
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)> <label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",",">);<\n>
self._state.following.pop()
>>
/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>
/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
input=self.input,
type=INVALID_TOKEN_TYPE,
channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>,
stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>

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// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>._primary.tree"
recRuleSetReturnAction(src, name) ::= "$<name> = $<src>._<name>"

/** match ^{(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, 
   enclosingTreeLevel, treeLevel) ::= "<
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
     if self.input.LA(1) == DOWN:
       self.match(self.input, DOWN, None)
     <children:element()>
     self.match(self.input, DOWN, None)
   <else>
     self.match(self.input, UP, None)
   <children:element()>
     self.match(self.input, UP, None)
   <endif>
   
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
     if self.input.LA(1) == DOWN:
       self.match(self.input, DOWN, None)
     <children:element()>
     self.match(self.input, DOWN, None)
   <else>
     self.match(self.input, UP, None)
   <children:element()>
     self.match(self.input, UP, None)
   <endif>
   
   /** Every predicate is used as a validating predicate (even when it is
    * also hoisted into a prediction expression).
    */
   validateSemanticPredicate(pred,description) ::= "
     if not (<evalPredicate(pred, description)>):
       <ruleBacktrackFailure()>
       raise FailedPredicateException(self.input, "<ruleName>", "<description>")
   
   // Fixed DFA (if-then-else)
   dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= "
     LA<decisionNumber>._<stateNumber> = self.input.LA(<k>)
     <edges; separator="\n">
     else:
     <if(eotPredictsAlt)>

alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<
    @@noViableAltException()>
    raise nvae</
    <endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead  
* for the bypass alternative. It delays error detection but this  
* is faster, smaller, and more what people expect. For (X)? people  
* expect "if ( LA(1)==X ) match(X);" and that's it.  
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<
<edges; separator="\nel">
>>

/** A DFA state that is actually the loopback decision of a closure  
* loop. If end-of-token (EOT) predicts any of the targets then it  
* should act like a default clause (i.e., no error can be generated).  
* This is used only in the lexer so that for ('a')* on the end of a rule  
* anything other than 'a' predicts exiting.  
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<
<edges; separator="\nel"> <\n>
@if(eotPredictsAlt)>
@if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
    alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,  
* enter to the target state. To handle gated productions, we may  
* have to evaluate some predicates for this edge.  
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
<!
FIXME: this is one of the few occasions, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n"> else:
@if(eotPredictsAlt)
 alt<decisionNumber> = <eotPredictsAlt>
@else
ruleBacktrackFailure()
 nvaE = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<n>
 @noViableAltException() raise nvaE<n>
@endif

>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n"> >>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n"> if(eotPredictsAlt)
@else
alt<decisionNumber> = <eotPredictsAlt>
@endif
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if LA<decisionNumber> in {<labels; separator=", ">}:
 targetState
>>
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>._eot = DFA.unpack(  
"<dfa.javaCompressedEOT; wrap=\\n\\"">"
)

DFA<dfa.decisionNumber>._eof = DFA.unpack(  
"<dfa.javaCompressedEOF; wrap=\\n\\"">"
)

DFA<dfa.decisionNumber>._min = DFA.unpack(  
"<dfa.javaCompressedMin; wrap=\\n\\"">"
)

DFA<dfa.decisionNumber>._max = DFA.unpack(  
"<dfa.javaCompressedMax; wrap=\\n\\"">"
)

DFA<dfa.decisionNumber>._accept = DFA.unpack(  
"<dfa.javaCompressedAccept; wrap=\\n\\"">"
)

DFA<dfa.decisionNumber>._special = DFA.unpack(  
"<dfa.javaCompressedSpecial; wrap=\\n\\"">"
)

DFA<dfa.decisionNumber>._transition = [  
    <dfa.javaCompressedTransition: {s|DFA.unpack("\\s; wrap=\\n\\"">")}; separator=\\n>
# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

<@errorMethod()>  

@if(dfa.specialStateSTs)>
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_magic is ok ;)
        # pylint: disable-msg=E0213

        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
        self = self_.recognizer

        _s = s

        <dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
        <state> }; separator="\nel">  

        <if(backtracking)>  
            if self._state.backtracking > 0:
                raise BacktrackingFailed

        <endif>  
            nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
            self_.error(nvae)
        raise nvae
        <endif>

>>

cyclicDFAInit(dfa) ::= <<
    self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
        self, <dfa.decisionNumber>,
        eot = self.DFA<dfa.decisionNumber>._eot,
        eof = self.DFA<dfa.decisionNumber>._eof,
        min = self.DFA<dfa.decisionNumber>._min,
        max = self.DFA<dfa.decisionNumber>._max,
        accept = self.DFA<dfa.decisionNumber>._accept,
        special = self.DFA<dfa.decisionNumber>._special,
        transition = self.DFA<dfa.decisionNumber>._transition
    )<n>
>>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)<
><if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()<
><endif>
s = -1
<edges; separator="el">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<
><endif>
if s >= 0:
    return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber><
><endif>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
se:
    s = <targetStateNumber><
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<operands; separator=" or ">")"

notPredicate(pred) ::= "not (<evalPredicate(pred, {})>"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "self.<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"
/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly. */

isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
((<lower> \leq LA<decisionNumber>_<stateNumber> \leq <upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \leq self.input.LA(<k>) \leq <upper>)"

lookaheadSetTest(values,k,valuesAsInt) ::= <%
LA<decisionNumber>_<stateNumber> in {<values; separator=" ">}
%>

isolatedLookaheadSetTest(values,k,valuesAsInt) ::= <%
sself.input.LA(<k>) in {<values; separator=" ">}
%>

lookaheadVarName(k) ::= "LA<decisionNumber>_<stateNumber>"
isolatedLookaheadVarName(k) ::= "self.input.LA(<k>)"

setTest(ranges) ::= "<ranges; separator=" or ">"

// ATTRIBUTES

globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):<scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []\n<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []\n</endif>
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= ":= ":=

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
    def __init__(self):
        super().__init__()
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<@ruleReturnInit()>
<@ruleReturnMembers()>
<endif>
>>
parameterScope(scope) ::= <<
  <if(scope)><scope.attributes: [it | <it.decl> ]; separator=", ">
    <endif>
  >>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
    self.<scope>_stack[-<negIndex>].<attr.name>
  <else>
    <if(index)>
      self.<scope>_stack[<index>].<attr.name>
    <else>
      self.<scope>_stack[-1].<attr.name>
    <endif>
  <endif>
%
 /* not applying patch because of bug in action parser!

  <if(negIndex)>
    ((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
  <else>
    <if(index)>
      ((<index> < len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
    <else>
      ((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
    </if>
  <endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
    <FIXME: this seems not to be used by ActionTranslator...!>
    self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
  <else>
    <if(index)>
      <FIXME: this seems not to be used by ActionTranslator...!>
      self.<scope>_stack[<index>].<attr.name> = <expr>
    <else>
      self.<scope>_stack[-1].<attr.name> = <expr>
    </if>
  <endif>
%

/* $x is either global scope or x is rule with dynamic scope: refers
to stack itself not top of stack. This is useful for predicates
like \{ $function.size()>0 \&\& $function::name.equals("foo") \}?

isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
    ((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
  <else>
    <scope>
  <endif>
%
returnAttributeRef(ruleDescriptor,attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name>
  <else>
    <attr.name>
  <endif>
%
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> = <expr>
  <else>
    <attr.name> = <expr>
  <endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <%
  <if(TREE_PARSER)>
  ((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
  )] or [None])[0]
  <else>
  ((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)]) or [None])[0]
  <endif>
%
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [None])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"  //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1"  // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= ".channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"
/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
   <if(backtracking)>
   <if(actions.(actionScope).synpredgate)>
   if <actions.(actionScope).synpredgate>: pass <action>
   <else>
   if <actions.(actionScope).synpredgate>: pass <action>
   <endif>
   <else>
   #action start
   <action>
   #action end
   <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true_value() ::= "True"
false_value() ::= "False"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python3/Python3.stg

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

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*/

/** Templates for building ASTs during normal parsing. *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

finishedBacktracking(block) ::= <<<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <block>
 <else>
 <block>
 <endif>
 <endif>
>>>

@ruleBody.setErrorReturnValue() ::= <<<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>>

// TOKEN AST STUFF
/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>;
<finishedBacktracking(
<label>_tree = <createNodeFromToken(...)>;
self._adaptor.addChild(root_0, <label>_tree)
})>>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= 
"<super.tokenRef(...)>";

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>;
<finishedBacktracking(
<label>_tree = <createNodeFromToken(...)>;
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={ <finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>)})}> }, ...)> %>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(postmatchCode={ <finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}> }, ...)> 
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** +=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>
>>
/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>
  <listLabel(label, [<label>.tree])>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(label, [<label>.tree])>
>>

// WILDCARD AST
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  <super.wildcard(...)>
  <finishedBacktracking({
    <label>_tree = self._adaptor.createWithPayload(<label>)
    self._adaptor.addChild(root_0, <label>_tree)
  })>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
  <super.wildcard(...)>
  <finishedBacktracking({
    <label>_tree = self._adaptor.createWithPayload(<label>)
    root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
  })>
>>

createNodeFromToken(label,terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  <terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
  <else>
    self._adaptor.createWithPayload(<label>)
  <endif>
%>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <finishedBacktracking({
    retval.tree = self._adaptor.rulePostProcessing(root_0)
    self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
  })>
>>
/*
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 */

dfa(decisionRanks,states,edges,rankdir,startState,useBox) ::= <<
digraph NFA {
  <if(rankdir)>rankdir=<rankdir>;<endif>
  <decisionRanks; separator="\n"> <states; separator="\n"> <edges; separator="\n"> } >>
nfa(decisionRanks,states,edges,rankdir,startState) ::= <<
digraph NFA {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states; separator="; ";>}
>>

edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontname="Times-Italic", label = "e"];
>>

state(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>box<else>circle, fixedsize=true, width=.4<endif>]; <name>
>>

stopstate(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>polygon,sides=4,peripheries=2<else>doublecircle, fixedsize=true, width=.6<endif>]; <name>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/templates/dot/dot.stg
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/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
 /* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that tree parsers and producers require. */
@genericParser.apifuncs() ::= <<
@if(PARSER)
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);
@endif
ctx->vectors = antlr3VectorFactoryNew(0);
>>

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
@if(PARSER)
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
@endif
>>
@returnScope.ruleReturnMembers() ::= <<
  <super.ASTLabelType()> tree;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> root_0;
>>

ruleInitializations() ::= <<
  <super.ruleInitializations()>
  root_0 = NULL;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize 
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only 
* one alt will be taken in a rule, but we are declaring all the streams here. So we define 
* a macro that contains the create code, then use this macro later to check if the stream 
* has been created yet. Checking for NULL is almost free in C. */
ruleLabelInitializations() ::= <<
  <super.ruleLabelInitializations()>
  <ruleDescriptor.tokenLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{it | stream_<it> = NULL;}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{it | stream_<it> = NULL;}; separator="\n">
>>
separator="\n">

@if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree = NULL;
@endif>>

/** a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = NULL;
>>

/** When doing auto AST construction, we must define some variables:
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@endif>
@endif>>

@alt.initializations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
@endif>
@endif>
@endif>>

// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
@if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><
@endif>
@endif>
@endif>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
tokenRefTrackAndListLabel(token, label, elementIndex, terminalOptions) ::= <<
<tokenRefTrack(...)>  
<wildcardTrack(label, elementIndex)>  
</tokenRefTrack(...)>  
>>

/** ^ID ... track for rewrite */
tokenRefRuleRootTrack(token, label, elementIndex, terminalOptions) ::= <<
<tokenRefRuleRoot(...)>  
<wildcardTrack(label, elementIndex)>  
</tokenRefRuleRoot(...)>  
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule, label, elementIndex, args, scope) ::= <<
<ruleRefTrack(...)>  
<wildcardTrack(label, elementIndex)>  
</ruleRefTrack(...)>  
>>

/** x+= rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefTrackAndListLabel(...)>  
<wildcardTrack(label, elementIndex)>  
</ruleRefTrackAndListLabel(...)>  
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRoot(...)>  
<wildcardTrack(label, elementIndex)>  
</ruleRefRuleRoot(...)>  
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRootTrackAndListLabel(...)>  
<wildcardTrack(label, elementIndex)>  
</ruleRefRuleRootTrackAndListLabel(...)>  
>>

// RULE REF AST
/** Match ^(label+=TOKEN ...) track for rewrite */

tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
    <tokenRefRuleRootTrack(…)>  
    <listLabel(elem=label,...)>  
    >>

/* How to accumulate lists when we are doing rewrite tracking... */

listLabelTrack(label) ::= <<
/* listLabelTrack(label) */
if (list_<label> == NULL) {
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);
>>

/* How to accumulate lists of rule outputs (only allowed with AST * option but if the user is going to walk the tree, they will want * all their custom elements from rule returns. */

* * Normally, we use inline structures (which the compiler lays down * code to copy from heap allocations. However, here we want to accumulate copies * of the returned structures because we are adding them to a list. This only makes sense if the * grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure * returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to * do a tree re-write, then the user may wish to iterate the structures returned by the rule in * action code and will expect the user defined returns[] elements to be available when they do this. * Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide * a function that can free the allocated space. We cannot know how to free user allocated elements and * presume that the user will know to do this using their own factories for the structures they allocate. */

listLabelAST(label) ::= <<
if (list_<label> == NULL) {
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
RETURN_TYPE_<label> * tcopy;

tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no memory allocation checks! */
ANTLR3_MEMCPY((void *)(tcopy), (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */
>>
// Rewrite
rewriteCode(
  alts,
  description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel,
  enclosingTreeLevel,
  treeLevel) ::= <<
  /* AST REWRITE */
  * elements : <referencedElementsDeep; separator="",">
  * token labels : <referencedTokenLabels; separator="",">
  * rule labels : <referencedRuleLabels; separator="",">
  * token list labels : <referencedTokenListLabels; separator="",">
  * rule list labels : <referencedRuleListLabels; separator="",">

  */
  <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) <\n
    <rewriteCodeLabelsDecl()>
    <rewriteCodeLabelsInit()>
    root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
    <prevRuleRootRef()>.tree = root_0;
    <alts:rewriteAlt(); separator="else ">
      <if(TREE_PARSER)>
        <if(rewriteMode)>
          <prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
          INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
                                  ADAPTOR->getChildIndex(ADAPTOR, _last),
                                  ADAPTOR->getChildIndex(ADAPTOR, _last),
                                  retval.tree);
        </if(rewriteMode)>
      </if(TREE_PARSER)>
    </if(rewritesAlt)>
  </if(backtracking)>
  <\n
  <rewriteCodeLabelsDecl()>
  <rewriteCodeLabelsInit()>
  <rewritesAlt:rewriteAlt(); separator="else ">
    <if(TREE_PARSER)>
      <if(rewriteMode)>
        <prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
        INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
                                ADAPTOR->getChildIndex(ADAPTOR, _last),
                                ADAPTOR->getChildIndex(ADAPTOR, _last),
                                retval.tree);
      </if(rewriteMode)>
    </if(TREE_PARSER)>
  </if(rewritesAlt)>

  <rewriteCodeLabelsFree()>
} >>
rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
  :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>};
  separator="\n"
>
<referencedTokenListLabels
  :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>};
  separator="\n"
>
<referencedRuleLabels
  :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>};
  separator="\n"
>
<referencedRuleListLabels
  :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>};
  separator="\n"
>>
rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
  :{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", <it>);};
  separator="\n"
>
<referencedTokenListLabels
  :{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", list_<it>); };}
  separator="\n"
>
<referencedRuleLabels
  :{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
  separator="\n"
>
<referencedRuleListLabels
  :{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEV(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", list_<it>);};
  separator="\n"
>>
rewriteCodeLabelsFree() ::= <<
<referencedTokenLabels
  :{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>); ];
  separator="\n"
>
<referencedTokenListLabels
  :{it | }
  separator="\n"
>>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
    alt,
    rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
<<
    // <fileName>:<description>
    {
    if ( \<referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) }\>; separator="|| ">
    {
    <alt>
    }
    \<referencedElementsDeep:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);\n>\n    }\n    >>
}

rewriteClosureBlock(
    alt,
    rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
<<
    // <fileName>:<description>
    {
    while ( \<referencedElements:{el | (stream_<el> != NULL) stream_<el>->hasNext(stream_<el>)) }\>; separator="|| ">
    {
    <alt>
    }
}
RewriteEarlyExitException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>
rewritePositiveClosureBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements., // elements in immediately block; no nested blocks
description) ::= <<
if (referencedElements:[el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) ]; separator="|| ")
{
  <RewriteEarlyExitException()>
}
else
{
while (referencedElements:[el | (stream_<el>->hasNext(stream_<el>)) ]; separator="|| ")
{
  <alt>
}
<referencedElements:{el | stream_<el>->reset(stream_<el>);\n}>}
>
rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (a.pred)
{
  <a.alt>
} \n
#else
{
  <a.alt>
} \n
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* <-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>::<description>
{  
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));  
  <root:rewriteElement()>  
  <children:rewriteElement()>  
  ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);  
} <<
}>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  <@pregen()>  
  <e.el>  
>>

/** Gen ID or ID[<args>] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>>;
} <<
}

/** Gen $<label> ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
  >nextNode(stream_<label>));
} <<
}

/** Gen $<label> ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
  >nextNode(stream_<label>));
} <<
}

/** Gen ^(<label> ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ? NULL : stream_<label>-
  >nextToken(stream_<label>), root_<treeLevel>));
} <<
}

/** Gen ^(<label> ...) where label+=... */
rewriteTokenLabelRefRoot := rewriteTokenLabelRefRoot

/** Gen ^(ID ... ) or ^(ID[<args>] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
  root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createRewriteNodeFromElement(...)>, root_<treeLevel>));
} <<
}

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createImaginaryNode(tokenType=token, ...), root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of root_0 right
 * before I set it during rewrites. The assign will be to retval.tree.
 */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule,dup) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
>nexfTree(stream_<rule>));<\n>
>>

rewriteRuleRefRoot(rule,dup) ::= <<<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
: stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nexfTree(stream_<label>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nexfTree(stream_<label>));<\n>
>>
ADAPTOR->createTypeTokenText(ADAPTOR, <token>->getType(<token>, TOKTEXT(<token>, <args; separator="", ">))) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>->getType(<token>, <token>, <args; separator="", ">)
#endif

<else>
stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/AST.stg
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*/
/** Template overrides to add debugging to normal C output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)
const char *
ruleNames[] =
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", ">
};<\n>
@endif
@if(grammar.grammarIsRoot) <! grammar imports other grammar(s) !>
static ANTLR3_UINT32 ruleLevel = 0;
static ANTLR3_UINT32 getRuleLevel()
{
return ruleLevel;
}
static void incRuleLevel()
{
ruleLevel++;
}
static void decRuleLevel()
{
ruleLevel--;
}
@endif <! imported grammar !>
static ANTLR3_UINT32
getRuleLevel()
{
return <grammar.delegators:{g| <g:delegateName()>}>->getRuleLevel();
}
static void incRuleLevel()
{
<grammar.delegators:{g| <g:delegateName()>}>->incRuleLevel();
}
static void
decRuleLevel()
{
<grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel();
}
</endif>
@if(profile)
// Profiling not yet implemented for C target
//
@endif
@if(grammar.grammarIsRoot)
<ctorForPredefinedListener()>
#else
<ctorForDelegateGrammar()>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}

@endif

@genericParser.debugStuff() ::= <<
@if(grammar.grammarIsRoot)
<createListenerAndHandshake()>
<endif>
>>

ctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
cTORForDelegateGrammar() ::= <<
>>

cTORForPredefinedListener() ::= <<
>>

createListenerAndHandshake() ::= <<
{
    // DEBUG MODE code
    //
    pANTLR3_DEBUG_EVENT_LISTENER	 proxy;
    proxy = antlr3DebugListenerNew();
    proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,(pANTLR3_UINT8)ctx->getGrammarFileName());
    <if(TREE_PARSER)>
    proxy->adaptor = ADAPTOR;
    <endif>
    PARSER->setDebugListener(PARSER, proxy);

    // Try to connect to the debugger (waits forever for a connection)
    //
    proxy->handshake(proxy);

    // End DEBUG MODE code
    //
@rule.preamble() ::= <<
if ( getRuleLevel()==0 )
{
DBG->commence(DBG);
}
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);
>>

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
<u>
>>

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"
@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=  
"DBG->enterSubRule(DBG, <decisionNumber>);\n"

exitSubRule() ::=  
"DBG->exitSubRule(DBG, <decisionNumber>);\n"

enterDecision() ::=  
"DBG->enterDecision(DBG, <decisionNumber>);\n"

exitDecision() ::=  
"DBG->exitDecision(DBG, <decisionNumber>);\n"
enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);\n"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()> <enterDecision()>
"

@block.postdecision() ::= "<exitDecision()>
"

@block.postbranch() ::= "<exitSubRule()>
"

@ruleBlock.predecision() ::= "<enterDecision()>
"

@ruleBlock.postdecision() ::= "<exitDecision()>
"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>
"

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>
"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>
"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>
"

@positiveClosureBlock.predecision() ::= "<enterDecision()>
"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>
"

@positiveClosureBlock.earlyExitException() ::= "DBG->recognitionException(DBG, EXCEPTION);\n"

@closureBlock.preloop() ::= "<enterSubRule()>
"

@closureBlock.postloop() ::= "<exitSubRule()>
"

@closureBlock.predecision() ::= "<enterDecision()>
"

@closureBlock.postdecision() ::= "<exitDecision()>
"

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>
"

@element.prematch() ::= "DBG->location(DBG, <e.line>, <e.pos>);" // e is arg of element

@matchSet.mismatchedSetException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM, &cdfa<decisionNumber>);
if (HASEXCEPTION())
{
    DBG->recognitionException(DBG, EXCEPTION);
    goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>

@cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//}}
//DBG->recognitionException(DBG, EXCEPTION);
//}}

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/Dbg.stg
No license file was found, but licenses were detected in source scan.

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/*
** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

@OverrideFile.imports() ::= <<
@super.imports()>
import org.antlr.runtime.debug.*;
import java.io.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static final String[] ruleNames = new String[] {
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n\t\t", separator="", " > ];<\n>
};
<endif>
public static final boolean[] decisionCanBacktrack = new boolean[] {
false, // invalid decision
<grammar.decisions:{d | <d.dfa.hasSynPred; null="false">}; wrap="\n    ", separator="", " > ];<\n>
<if(grammar.grammarIsRoot)>

public int ruleLevel = 0;
public int getRuleLevel() { return ruleLevel; }
public void incRuleLevel() { ruleLevel++; }
public void decRuleLevel() { ruleLevel--; }
<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int getRuleLevel() { return <grammar.delegators:{g| <g:delegateName()>}>.getRuleLevel(); }
public void incRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.incRuleLevel(); }
public void decRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel(); }
<ctorForDelegateGrammar()>
<if(profile)>
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
int stopIndex = getRuleMemoization(ruleIndex, input.index());
((Profiler)dbg).examineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
}
return super.alreadyParsedRule(input, ruleIndex);
}

@Override
public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
((Profiler)dbg).memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
super.memoize(input, ruleIndex, ruleStartIndex);
}<
<endif>
protected boolean evalPredicate(boolean result, String predicate) {
dbg.semanticPredicate(result, predicate);
return result;
}<\n>
>>
ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input) {
this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
super(input, state);
<parserCtorBody()>
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<@finally()>
}<\n>
>>
ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState state) {
super(input, dbg, state);
Profiler p = (Profiler)dbg;
p.setParser(this);
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"
/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()}>}) {
    super(input, dbg, state);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g:delegateName()>=new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|, <g:delegateName()}>);}; separator="\n"}
} <<
>>

ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, DebugEventListener dbg) {
    <@superClassRef>super(input, dbg, new RecognizerSharedState());<@end>
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()>=new <g.recognizerName>(input, dbg, this.state,
        this<grammar.delegators:{g|, <g:delegateName()}>);}; separator="\n"}
    <@finally()>
} <<
>>

createListenerAndHandshake() ::= <<
    <if(TREE_PARSER)>
        DebugEventSocketProxy proxy =
        new DebugEventSocketProxy(this, port, input.getTreeAdaptor());<\n>
    <else>
        DebugEventSocketProxy proxy =
        new DebugEventSocketProxy(this, port, null);<\n>
    <endif>
    setDebugListener(proxy);
    try {
        proxy.handshake();
    } catch (IOExpection ioe) {
        reportError(ioe);
    } <<
>>
@genericParser.superClassName() ::= "Debug<@super.superClassName()>">

@rule.preamble() ::= <<
try { dbg.enterRule(getGrammarFileName(), "<ruleName>");
if ( getRuleLevel()==0 ) {dbg.commence();}
incRuleLevel();
dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine>);<\n
>>

@rule.postamble() ::= <<
dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n
} finally {
dbg.exitRule(getGrammarFileName(), "<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 ) {dbg.terminate();}
}<\n
>>

@synpred.start() ::= "dbg.beginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.endBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= 
"try { dbg.enterSubRule(<decisionNumber>);}<\n
" 

exitSubRule() ::= 
"} finally {dbg.exitSubRule(<decisionNumber>);};<\n
"

enterDecision() ::= 
"try { dbg.enterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);}<\n
"

exitDecision() ::= 
"} finally {dbg.exitDecision(<decisionNumber>);};<\n
"

enterAlt(n) ::= "dbg.enterAlt(<n>);<\n
"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule><enterDecision>"

@block.postdecision() ::= "<exitDecision>"

@block.postbranch() ::= "<exitSubRule>"

@ruleBlock.predecision() ::= "<enterDecision>"
@cyclicDFA.errorMethod() ::= <<
public void error(NoViableAltException nvae) {
    dbg.recognitionException(nvae);
}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(<pred>,"<description>")
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/Dbg.stg
No license file was found, but licenses were detected in source scan.

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 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
csharpVisibilityMap ::= [
    "private" : "private",
    "protected" : "protected",
    "public" : "public",
    "fragment" : "private",
    default : "private"
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= <<
    //----------------------------------------------------------------------
    // \<auto-generated>
    // This code was generated by a tool.
    // ANTLR Version: <ANTLRVersion>
    //
    // Changes to this file may cause incorrect behavior and will be lost if
    // the code is regenerated.
    // \</auto-generated>
    //----------------------------------------------------------------------

    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

    <if(trace)>
    #define ANTLR_TRACE
    <endif>
    <@debugPreprocessor()>  
    // The variable 'variable' is assigned but its value is never used.
    #pragma warning disable 168, 219
    // Unreachable code detected.
    #pragma warning disable 162
    // Missing XML comment for publicly visible type or member 'Type_or_Member'
    #pragma warning disable 1591

    <actions.(actionScope).header>

    <@imports>
    using System.Collections.Generic;
    using Antlr.Runtime;
    using Antlr.Runtime.Misc;
using Antlr.Runtime.Tree;
using ConditionalAttribute = System.Diagnostics.ConditionalAttribute;

namespace <actions.(actionScope).namespace>
{

}<docComment>

}<recognizer>

// namespaces

}

// namespace <actions.(actionScope).namespace>

>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass=<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>}) ::= <<
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
	OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>


input<grammar.delegators:{g|<g.recognizerName> <g:delegateName()}>}> )

: this(input, new RecognizerSharedState<grammar.delegators:{g|<g.recognizeName> <g:delegateName()}>)

{ }

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>>(<lexerInputStreamType()> input, RecognizerSharedState state<grammar.delegators:{g|<g.recognizerName> <g:delegateName()>}>)

: base(input, state)

{ <if(memoize)>

<if(grammar.grammarIsRoot)>

state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];

<endif>

<endif>

<grammar.directDelegates:

{[g]<g:delegateName()> = new <g.recognizerName>(input, this.state<grammar.delegators:{p|<p:delegateName()>}>, this);}; separator="\n"

<grammar.delegators:

{[g]this.<g:delegateName()> = <g:delegateName()>;} separator="\n"

<last(grammar.delegators):{[g]gParent = <g:delegateName()>;

OnCreated();
}

public override string GrammarFileName { get { return "<fileName>"; } }

private static readonly bool[] decisionCanBacktrack = new bool[0];

<if(grammar.hasDelegates)>

public override <lexerInputStreamType()> CharStream

{ get

{ return base.CharStream;

} set

{ base.CharStream = value;

<grammar.directDelegates:

{[g]<g:delegateName()> = new <g.recognizerName>(input, state<grammar.delegators:{p|<p:delegateName()>}>, this);}; separator="\n"

<grammar.delegators:

{[g]this.<g:delegateName()> = <g:delegateName()>;} separator="\n"

<last(grammar.delegators):{[g]gParent = <g:delegateName()>;

} }

<if(grammar.delegates)>

public override void SetState(RecognizerSharedState state)
{ base.SetState(state);
<grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n"> }
<endif>

<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
protected override void InitDFAs()
{
base.InitDFAs();
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

}

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
while (true)
if (input.LA(1) == CharStreamConstants.EndOfFile)
{
IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, input.Index, input.Index);
eof.Line = Line;
eof.CharPositionInLine = CharPositionInLine;
return eof;
}
state.token = null;
state.channel = TokenChannels.Default;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
int m = input.Mark();
state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume();<! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
}
catch (RecognitionException re)
{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);

return false;
}

>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   bitsets, inputStreamType, superClass,
   labelType, members, rewriteElementType,
   filterMode, ASTLabelType="object") ::= <<
   [System.CLSCompliant(false)]
   <parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
   <@superClassName><superClass><@end>
   {
   <if(grammar.grammarIsRoot)>
   internal static readonly string[] tokenNames = new string[] {
   "\ninvalid\n", "\nEOR\n", "\nDOWN\n", "\nUP\n", <tokenNames; separator="\n">
   };
   <endif>
   <tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">

   <if(grammar.delegates)>
   // delegates
   <grammar.delegates:
   {g|private <g.recognizerName> <g:delegateName()>;}; separator="\n">
   <endif>
   <if(grammar.delegators)>
   // delegators
   <grammar.delegators:
   {g|private <g.recognizerName> <g:delegateName()>;}; separator="\n">
   <last(grammar.delegators):{g|private <g.recognizerName> gParent;}>
   <endif>

   <if(grammar.delegates)>
   public override void SetState(RecognizerSharedState state)
   {
   base.SetState(state);
   }
#region DFA
<if(cyclicDFAs)>{dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
        SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#region DFA
<endif>

<if(bitsets)>#region Follow sets
private static class Follow
{
<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)}>;
}
#endregion Follow sets
<endif>

@endef

@if(grammar.directDelegates)>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, state)
{
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    <grammar.decisions:{d | <d.dfa.hasSynPred>}; wrap="\n", separator="", ">
    ;
});
#endif
private static readonly bool[] decisionCanBacktrack = new bool[]
{
    false, // invalid decision
    <grammar.decisions:{d | <d.dfa.hasSynPred>}; wrap="\n", separator="", ">
    ;
};
#else
private static readonly bool[] decisionCanBacktrack = new bool[0];
@endef
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
{
    }
}</actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
  {g|g.delegateName() = new g.recognizerName(input, state.trunc(g.delegates):{p|, p.delegateName()}>; this);}; separator="\n">
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | g.delegateName() = g.delegator.delegateName().g.delegateName>();}; separator="\n">
<endif>
<if(grammar.delegators)>
<last(grammar.delegators):{g|gParent = g.delegateName();}>}
<endif>
/parserCtorBody()>
OnCreated();
}
>>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
/parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<endif>
>>
/parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[length(grammar.allImportedRules)+1];\n<! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
  {g|this.g.delegateName() = g.delegateName();}; separator="\n">
>>
/parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
  ASTLabelType="object",
  superClass={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser
  <endif>}, labelType="IToken",
  members={<actions.parser.members>}) ::= <<
genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>>
>>
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
  numRules, bitsets, filterMode, labelType={<ASTLabelType>], ASTLabelType="object",
  if(filterMode)<if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},
  members={<actions.treeparser.members>}) ::= <<
/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc... just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
* /

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>_fragment() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>_fragment() {}

// $ANTLR start <ruleName>
<ruleModifier(grammar,ruleDescriptor)> void
<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
<ruleLabelDefs()>
EnterRule_<ruleName>_fragment();
EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
try
{
<block>
}
finally
{
TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
LeaveRule_<ruleName>_fragment();
}
// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
give simplest possible method. Don't do
 private bool EvaluatePredicate(System.Action fragment)
{
```csharp
bool success = false;
state.backtracking++;  
<@start()>
try { DebugBeginBacktrack(state.backtracking);
int start = input.Mark();
try
{
fragment();
}  
catch (RecognitionException re)
{
System.Console.Error.WriteLine("impossible: "+re);
}
success = !state.failed;
input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
<@stop()>  
state.backtracking--;
state.failed=false;
return success;
}
@endregion Synpreds
@endif>

>>

ruleMemoization(name) ::= <<
@if(memoize)
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
@endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)if (state.failed) <returnFromRule()><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)if (state.backtracking>0) { state.failed=true; <returnFromRule()>}<endif>
>>

ruleWrapperMap ::= [
"bottomup":{<ruleWrapperBottomup()>},
"topdown":{<ruleWrapperTopdown()>},
default:""
]

ruleWrapperBottomup() ::= <<
```
protected override void Bottomup() { return bottomup(); }

ruleWrapperTopdown() ::= <<
protected override void Topdown() { return topdown(); }
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
[Conditional("ANTLR_TRACE")] protected virtual void EnterRule_<ruleName>() {}
[Conditional("ANTLR_TRACE")] protected virtual void LeaveRule_<ruleName>() {}
<ruleWrapperMap.(ruleName)>
// $ANTLR start "+ruleName"
// <fileName>:<description>
[GrammarRule("<ruleName>")]<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName;format=\"id\">(<ruleDescriptor.parameterScope:parameterScope()>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<preamble>()
try
{
<ruleMemoization(name=ruleName)>
[block]
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
}
</if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n}>}>

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<else>
    <if(!emptyRule>)
        <if(actions.(actionScope).rulecatch>)
            <actions.(actionScope).rulecatch>
        <else>
            catch (RecognitionException re)
            {
                ReportError(re);
                Recover(input,re);
                <@setErrorReturnValue()>
            }
        <endif>
    <endif>
</endif>
finally
{
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    LeaveRule_<ruleName>();
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    }
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
{returnFromRule()}<\n>
}
// $ANTLR end "<ruleName>"  
  
// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
    <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier); null="private"><else>internal<endif>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
    <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier); null="private"><else>public<endif>

catch(decl,action) ::= <<
    catch (<e.decl>)
    {
    <e.action>
    


ruleDeclarations() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
  retval.Start = (<labelType>)input.LT(1);
  <elseif(ruleDescriptor.returnScope)>
  <ruleDescriptor.returnScope.attributes: { a | <a.type> <a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)> <endif>; }
  </endif>
  <if(memoize)>
  int <ruleDescriptor.name>_StartIndex = input.Index;
  </endif>
  >>

ruleScopeSetUp() ::= <<
  <ruleDescriptor.useScopes: {it|<it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());}; separator="\n">
  <ruleDescriptor.ruleScope: {it|<it.name>_stack.Push(new <it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
  >>

ruleScopeCleanUp() ::= <<
  <ruleDescriptor.useScopes: {it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
  <ruleDescriptor.ruleScope: {it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
  >>

ruleLabelDefs() ::= <<
  <[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels] :
  {it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n">
  <ruleDescriptor.tokenListLabels :
  {it|List<<labelType>> list_<it.label.text> = null;}; separator="\n">
  <ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels] :
  {it|List<<ASTLabelType>> list_<it.label.text> = null;}; separator="\n">
  <ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
  <ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n">
  >>

lexerRuleLabelDefs() ::= <<
  <ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels>
returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
  single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!!!> retval
<endif>
<endif>
<endif>
 ;
%

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking>)
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() {}

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
  <ruleScopeSetUp()>
  <ruleDeclarations()>
try
{<if(nakedBlock)>
 <lexerMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <else>
 int _type = <ruleName>;
 int _channel = DefaultTokenChannel;
 <lexerMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanUp()>
 state.type = _type;
 state.channel = _channel;
 <(ruleDescriptor.actions.after):execAction()>
 <endif>
}
finally
{
 TraceOut("<ruleName>", <ruleDescriptor.index>);
 LeaveRule("<ruleName>", <ruleDescriptor.index>);
 LeaveRule_<ruleName>();
   <ruleScopeCleanUp()>
   <memoize()>
 }
// $ANTLR end "<ruleName>"
>>
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
 <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);}
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
 <decision>
 } finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
 <alts:{a|<altSwitchCase(i,a)>}}
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 // <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
 <decision>
 } finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
 <alts:{a|<altSwitchCase(i,a)>}}
}
>>
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  DebugEnterAlt(1);
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  DebugEnterAlt(1);
  <alts>
  <@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()>
  try { DebugEnterSubRule(<decisionNumber>);
  while (true)
  {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
    <decision>
  } finally { DebugExitDecision(<decisionNumber>); }
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
    <alts:{a|<altSwitchCase(i,a)>}>
    default:
    if (cnt<decisionNumber> >= 1)
    goto loop<decisionNumber>;
    <ruleBacktrackFailure()>
    EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
    DebugRecognitionException(eee<decisionNumber>);
    <@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;
}
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;
}
}
}
} finally { DebugExitSubRule(<decisionNumber>); }<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
<br />
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>==<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:{a|<altSwitchCase(i,a)>}>default:
goto loop<decisionNumber>;
}
}
loop<decisionNumber>:
;
}
} finally { DebugExitSubRule(<decisionNumber>); }<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase(altNum,alt) ::= <<
  case <altNum>:
    <@prealt()> DebugEnterAlt(<altNum>);
    <alt>
    break;
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description>
  {
    <@declarations()> <elements:element()> <rew> <@cleanup()> }
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noreWrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(it) ::= <%
    <@prematch()> DebugLocation(<it.line>, <it.pos>);
    <it.el><
    %>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
    <if(label)> <label>=(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>
listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List\<<elemType; null={<labelType>}>\>();
list_<label>.Add(<elem>);<\n>
>>
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<matchSetLabel()>
<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;

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matchSetUnchecked(s,label,elementIndex.postmatchCode=false) ::= <%
@if(label)>
<matchSetLabel()>
<endif>
input.Consume();
@if(postmatchCode)
<postmatchCode>
<endif>
@if(!LEXER)state.errorRecovery=false;<endif><if(backtracking)state.failed=false;<endif>
%

matchSetLabel() ::= <%
@if(LEXER)>
<label>= input.LA(1);
<else>
<label>=(<labelType>)input.LT(1);
<endif>
%

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex.postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
@if(label)
<int <label>Start = CharIndex;\n>
Match(<string>); <checkRuleBacktrackFailure>() <\n>
<int <label>StartLine<elementIndex> = Line;\n>
<int <label>StartCharPos<elementIndex> = CharPositionInLine;\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);\n>
<label>.Line = <label>StartLine<elementIndex>;\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure>() <\n>
<endif>
%

<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow_set_in_<ruleName><elementIndex>);
!>
<endif>
} <\n>
>>
wildcard(token, label, elementIndex, terminalOptions={}) ::= <<
  <if(label)>
  <label> = input.LT(1); <
  <endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
  <wildcard(...)>
  <listLabelElem(elem=label, elemType=labelType,...)> 
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1); <
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabelElem(elem=label, elemType=labelType,...)> 
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 * */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
  <if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name; format="id">(<args;
  separator="",">);
  PopFollow();
  <checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)>
  <listLabelElem(elem=label, elemType={<ASTLabelType>},...)>
>>

/** A lexer rule reference.
 * 
 * The 'rule' argument was the target rule name, but now
 * 
 * 

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* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
%>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%>
// used for left-recursive rules
recRuleDefArg()
::= "int <recRuleArg()>"
recRuleArg()
::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction()
::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name)
::= "$<name>=$<src>.<name>;"

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/** match ^\(root children\) in tree parser */

```java
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if (input.LA(1) == TokenTypes.Down)
    {
        Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
        <children:element()>
        Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
    }
    <else>
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
    </if>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression). */

validateSemanticPredicate(pred,description) ::= <<
    if (!(<evalPredicate(...)>)
    {
        <ruleBacktrackFailure()>
        throw new FailedPredicateException(input, "<ruleName>", "<description>");
    }
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber> = input.LA(<k>);
    <edges; separator="\nelse ">
    <if(!isTrue.(last(edges).labelExpr) && (!last(edges).predicates))>
    else
    {<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
    <else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
    input, <k>);
    DebugRecognitionException(nvae);
    </noViableAltException()>
    throw nvae;
```
/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
daOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<k> = input.LA(<k>);<
    <edges; separator="\n else ">
    >>
/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
daLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_<k> = input.LA(<k>);<
    <edges; separator="\n else ">\n    >>
    if(eotPredictsAlt)
    <if(!edges)>
    alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
    <else>
    else
    {
    alt<decisionNumber> = <eotPredictsAlt>;
    }
    <endif>
    <endif>
    >>
/** An accept state indicates a unique alternative has been predicted */
daAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"
/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
daEdge(labelExpr, targetState, predicates) ::= <<
    if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
    {
    <targetState>
    }
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch(). */

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>==<eotPredictsAlt>;
break;<\n>
<else>
{
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
}
<endif>
|
<\n>
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
|<\n>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
<if(eotPredictsAlt)>
default:
alt<decisionNumber>==<eotPredictsAlt>;
break;<\n>
<endif>
|
<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/

dfaDecision(decisionNumber,description) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap=""/>
\n\n\n"";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap=""/>
\n\n\n"";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap=""/>
\n\n\n"";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap=""/>
\n\n\n"";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap=""/>
\n\n\n"";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap=""/>
\n\n\n"";
}>>;
private static readonly string[,] DFA<dfa.decisionNumber>_transitionS =
{
    <dfa.javaCompressedTransition: [s]|<s; wrap=""+/\n"">; separator="\n">
};

private static readonly short[,] DFA<dfa.decisionNumber>_transition =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS);

private static readonly short[,] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);

private static readonly short[,] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);

private static readonly short[,] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);

private static readonly short[,] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);

private static readonly short[,] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);

private static readonly short[,] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);

private static readonly short[,] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][,];
    for (int i = 0; i < numStates; i++)
    {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer,
SpecialStateTransitionHandler specialStateTransition)
    : base(specialStateTransition)
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}

@if(dfa.specialStateSTs)
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input);! throws NoViableAltException!
{
    <if(LEXER>)
    IIntStream input = _input;
    <endif>
    <if(PARSER>)
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER>)
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    s = -1;
    <! pull these outside the switch cases to save space on locals !>
    int LA<dfa.decisionNumber>_1 = input.LA(1);
    int index<dfa.decisionNumber>_1 = input.Index;
    switch (_s)
    {
    <dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    default:
    break;
    }
    if (s >= 0)
    return s;
    <if(backtracking>)
    if (state.backtracking > 0) {state.failed=true; return -1;}
    <endif>
    NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae);
    throw nvae;
    }
    <endif>
}
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
{ 
<if(semPredState)>
<! get next lookahead symbol to test edges, then rewind !>
input.Reward();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
break;
}
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<operands; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_k=<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<k><ge()>lower && LA<decisionNumber>_<k><le()>upper)
%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)<ge()>lower && input.LA(<k>)<le()>upper)"

gle() ::= "<="
ge() ::= ">="

setTest(ranges) ::= <<
<ranges; separator="||">
>>

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
<scope.attributes:{it|public <it.decl>;}; separator="n">
}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
<scope.actions.scopeinit>
}
<else>
protected virtual void <scope.name>_scopeInit( <scope.name>_scope scope )
{
<scope.actions.scopeinit>
}
</else>
protected virtual void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
<scope.actions.scopeafter>
}
</else>
protected virtual void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
<scope.actions.scopeafter>
}
protected readonly ListStack<<scope.name>_scope> <scope.name>_stack = new
ListStack<<scope.name>_scope>();
<endif>
<endif>
>>

globalAttributeScope(scope) ::= <<

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName(it) ::= "<it.name>_return"

class <attributeScope(...)>
ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName(it) ::= "<it.name>_return"

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
%>

/** Generate the C# type associated with a single or multiple return
 *  values.
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>

delegateName(it) ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 *  must be an object, default value is "null".
 */
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =

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/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/

returnScope(scope) ::= <<
@if(scope.attributes && ruleDescriptor.hasMultipleReturnValue)
:returnScopeModifier(grammar=grammar, ruleDescriptor=ruleDescriptor) sealed partial class <ruleDescriptor:returnStructName()> : <ruleReturnBaseType()>@ruleReturnInterfaces()
{
    <scope.attributes:{it|public <it.decl>}; separator="
"> <@ruleReturnMembers()>
} <endif>
>>

ruleReturnBaseType() ::= <%
@if(TREE_PARSER)Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%

@returnScope.ruleReturnMembers() ::= <<
>>

parameterScope(scope) ::= <<
    <scope.attributes:{it[it.decl]}; separator="", ">
>>

parameterAttributeRef(attr) ::= <<
    <attr.name; format="id">
>>

parameterSetAttributeRef(attr, expr) ::= <<
    <attr.name; format="id"> =<expr>;
>>

scopeAttributeRef(scope, attr, index, negIndex) ::= <%
@if(negIndex)
    <scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
@else
    <scope>_stack[<index>].<attr.name; format="id">
@endif
@end%>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  <if(negIndex)>
    <scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
  <else>
    <scope>_stack[<index>].<attr.name; format="id"> = <expr>;
  <endif>
  <endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {function.Count>0 && function::name.Equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
    (<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name; format="id">:<initValue(attr.type)>)
  <else>
    <scope>
  <endif>
%

returnAttributeRef(ruleDescriptor, attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name; format="id"> =<expr>;
  <else>
    <attr.name; format="id"> =<expr>;
  <endif>
%

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name; format="id"> =<expr>;
  <else>
    <attr.name; format="id"> =<expr>;
  <endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> !=null?<scope>.Text:default(string))"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope> !=null?<scope>.Type:0))"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope> !=null?<scope>.Line:0))"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope> !=null?<scope>.CharPositionInLine:0))"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope> !=null?<scope>.Channel:0))"
tokenLabelPropertyRef_index(scope,attr) ::= "((<scope> !=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((<scope> !=null?int.Parse(<scope>.Text):0))"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope> !=null?<labelType>)(<scope>.Start):default(<labelType>))"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope> !=null?<labelType>)(<scope>.Stop):default(<labelType>))"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)(<scope>.Tree):default(<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <%
  if(TREE_PARSER)
    (<scope> !=null?(input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
      input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string))
  else
  %>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> !=null?<scope>.Template:null))"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> !=null?<scope>.Type:0))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> !=null?<scope>.Line:0))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> !=null?<scope>.CharPositionInLine:-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> !=null?<scope>.Channel:0))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> !=null?<scope>.TokenIndex:0))"
lexerRuleLabelPropertyRef_text(scope, attr) ::= "(<scope>!=null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.Start"
rulePropertyRef_stop(scope, attr) ::= "retval.Stop"
rulePropertyRef_tree(scope, attr) ::= "retval.Tree"
rulePropertyRef_text(scope, attr) ::= <%
  <if(TREE_PARSER)>
  <else>
    input.ToString(retval.Start,input.LT(-1))
  <endif>
%
rulePropertyRef_st(scope, attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope, attr) ::= "Text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.Template =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking)>
    if (<actions.(actionScope).synpredgate>)
    {
      <@indentedAction()></n>
    }
  <else>
    <action>
    <endif>
  </%
}
@execAction.indentedAction() ::= <<
  <action>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{it|<it>UL};separator="",">});
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

isTrue ::= ["true" : true,
             default : false ]

Found in path(s):
  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
    jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

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

*/

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
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*/

asTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "Number": "0.0",
  "Boolean": "false",
  default: "null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions,
  docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,
  scopes, superClass, literals) ::= <<
  // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
  package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> {
    <actions.(actionScope).header>
    <@imports>
    import org.antlr.runtime.*;
    <if(TREE_PARSER)>
      import org.antlr.runtime.tree. *
    </if(TREE_PARSER)>
    <@end>
    <docComment>
    <recognizer>
  }
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="Token",
  superClass="Lexer") ::= <<
  public class <grammar.recognizerName> extends
  <if(actions.(actionScope).superClass)> <actions.(actionScope).superClass><else> @superClassName</if(superClass	>
  <<
    <tokens:{it | public static const <it.name>:int=<it.type>;}; separator="\n"
**A override of Lexer.nextToken() that backtracks over mTokens() looking**

* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
public override function nextToken():Token {
    while (true) {
        if ( input.LA(1)==CharStreamConstants.EOF ) {
            return TokenConstants.EOF_TOKEN;
        }
        this.state.token = null;
        this.state.channel = TokenConstants.DEFAULT_CHANNEL;
        this.state.tokenStartCharIndex = input.index;
        this.state.tokenStartCharPositionInLine = input.charPositionInLine;
        this.state.tokenStartLine = input.line;
        this.state.text = null;
        try {
            var m:int = input.mark();
            this.state.backtracking=1; <! means we won't throw slow exception !>
            this.state.failed=false;
            mTokens();
            this.state.backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2 
            and we set the synpredgate to allow actions at level 1. !>
            if ( this.state.failed ) {
                input.rewindTo(m);
                input.consume(); <! advance one char and try again !>
            } else {
                emit();
                return this.state.token;
            }
        } catch (re:RecognitionException) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    } catch (re:RecognitionException) {
        // shouldn't happen in backtracking mode, but...
        reportError(re);
        recover(re);
    }
    // Not reached - For ActionScript compiler
    throw new Error();
}

public override function memoize(input:IntStream,
    ruleIndex:int,
    ruleStartIndex:int):void {
    if ( this.state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
    if ( this.state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="Object") ::= <<
    public class <grammar.recognizerName> extends 
        <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
        ><@end><endif>
{ 
    <if(grammar.grammarIsRoot)>
    public static const tokenNames:Array = [
        "<invalid>", ",","<EOR>",","<DOWN>",","<UP>",<tokenNames; separator="","> 
    ];
    <endif>
    <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n"> 

    // delegates
    <grammar.delegates: {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"> 
    // delegators
    <grammar.delegators: 
        {g|public var <g:delegateName()>:<g.recognizerName>;}; separator="\n"> 
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}> 
    
    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}> 
    <@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public function <grammar.recognizerName>(<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,
        }>
        input:<inputStreamType>, state:RecognizerSharedState = null) { 
    super(input, state); 
    <cyclicDFAs:cyclicDFACtor()> 
    <parserCtorBody()> 
    <grammar.directDelegates: 
        {g|<g:delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>this,
        input, this.state);}; separator="\n"> 
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n"> 
    <last(grammar.delegators):{g|gParent = <g:delegateName>();}> 
    }
    <@end>

    public override function get tokenNames():Array { return 
    <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
}}

actionGate() ::= "this.state.backtracking==0"

filteringActionGate() ::= "this.state.backtracking==1"
public override function get grammarFileName():String { return "<fileName>"; }

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
  public function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>):<returnType()> {<if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator="","">); </ruleDescriptor.grammar>.<ruleDescriptor.name>(<ruleDescriptor.grammar.delegateName()>)
  <ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.grammar.delegateName()>)
}); separator="\n">

<synpreds:{p | <synpred(p)> }>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=<it.bits>)}> }
}
>>

parserCtorBody() ::= <<
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
    this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);<\n>
  <endif>
  <endif>
  <grammar.delegators:
    {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">

<<

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
  <genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, "TokenStream", superClass,
    labelType, members, "Token",
    false, ASTLabelType)>

>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
  numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
  superClass="TreeParser", members={<actions.treeparser.members>}) ::= <<
/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>):void {
  <ruleLabelDefs()>
  <if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
      <block>
    }
    finally {
      traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
  <else>
  <block>
  <endif>
// $ANTLR end <ruleName>
>>
synpred(name) ::= <<
public final function <name>():Boolean {
  this.state.backtracking++;
  <$@start()>}
  var start:int = input.mark();
  try {
    <name>_fragment(); // can never throw exception
  } catch (re:RecognitionException) {
    trace("impossible: "+re);
  }
  var success:Boolean = !this.state.failed;
  input.rewindTo(start);
  <$@stop()>}
  this.state.backtracking--;
  this.state.failed=false;
>>
return success;
}
/>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if (this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue>;
}
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)if (this.state.failed) return <ruleReturnValue>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
@attributeScope(scope=ruleDescriptor.ruleScope)
// $ANTLR start <ruleName>
// <fileName>:<description>
public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):<returnType()> {
@if(trace)traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
@preamble()
try {
@if(memoize)
<ruleMemoization(name=ruleName)>
@block
<ruleCleanUp()
<@ruleDescriptor.actions.init
@ruleDescriptor.actions.init>
}@preamble()
try {
@if(memoize)
<ruleMemoization(name=ruleName)>
@block
<ruleCleanUp()
<@ruleDescriptor.actions.init
@ruleDescriptor.actions.init>
}@preamble()

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]:{it |var <it.label.text>:<labelType>=null;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]:{it |var list_<it.label.text>:Array=null;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{it |var <it.label.text>:<labelType>=null;}; separator="\n">
<ruleDescriptor.charLabels:{it |var <it.label.text>:int;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{it |var list_<it.label.text>:Array=null;}; separator="\n">
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<else>
%

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);
<endif>
<endif>
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>
/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start ruleName
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):void {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
    <if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block><
    <else>
    var _type:int = <ruleName>;
    var _channel:int = DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    this.state.type = _type;
    this.state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
    <endif>
    }
    finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
    }
} // $ANTLR end ruleName
>>
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock, args, block, ruleDescriptor) ::= <<
public override function mTokens():void {
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}>
}
>>

ruleBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description>
 <decls>
 <@prealt()>
 <alts>
 <@postalt()>
 >>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
 var cnt<decisionNumber>:int=0;
 <decls>
 <@preloop()>
 loop<decisionNumber>:
 do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
  <alts:{a | <altSwitchCase(i, a)>>}
  default :
   if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
   <ruleBacktrackFailure()>
   throw new EarlyExitException(<decisionNumber>, input);
   <! Need to add support for earlyExitException debug hook !>
  }
  cnt<decisionNumber>++;
 } while (true);
 <@postloop()>
 >>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
 <decls>
 <@preloop()>
 loop<decisionNumber>:
 do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>

switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i, a)>}> default :
    break loop<decisionNumber>;
} while (true);<@postloop()>
}>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number.  A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altsSwitchCase(altNum, alt) ::= <<
    case <altNum> :
        <@prealt()>
        <alt>
        break;<
    >>

/** An alternative is just a list of elements; at outermost level */
alts(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {<@declarations()>
     <elements:element()>
     <rew>
     <@cleanup()>
    }
}>

/** What to emit when there is no rewrite.  For auto build
* mode, does nothing.
*/
norewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
@if(label)>label=</labelType>(matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>)</if(label)>; <checkRuleBacktrackFailure>()
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);

>>

/** match a character */
charRef(char,label) ::= <<
@if(label>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure>()
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure>()
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
@if(label>
@if(LEXER)
<label>= input.LA(1);<\n>
<else>
<label>==</labelType>(input.LT(1));<\n>
<endif>
<endif>
if ( <s> ) {
input.consume();

<postmatchCode>

<if(!LEXER>)
  this.state.errorRecovery=false;
<endif>

<if(backtracking)>this.state.failed=false;<endif>
}
else {
  <ruleBacktrackFailure()>
  #@mismatchedSetException()
  <if(LEXER)>
    throw recover(new MismatchedSetException(null,input));
  <else>
    throw new MismatchedSetException(null,input);
  </if>
</if>
}<
>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  var <label>Start:int = charIndex;
  matchString(<string>); <checkRuleBacktrackFailure()>
  var <label>StartLine<elementIndex>:int = line;
  var <label>StartCharPos<elementIndex>:int = charPositionInLine;
  <label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
  TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
  <label>.line = <label>StartLine<elementIndex>;
  <label>.charPositionInLine = <label>StartCharPos<elementIndex>;
  </else>
  matchString(<string>); <checkRuleBacktrackFailure()>
</if>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)>
  <label>=(<labelType>(input.LT(1));
</if>

<<end>>
matchAny(input); <checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(label, label)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*
* GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
*
See: https://bugs.adobe.com/jira/browse/ASC-3625
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.

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* Now though you can access full rule descriptor stuff.
*/

lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
  <if(label)>
  var <label>Start<elementIndex>:int = charIndex;
  var <label>StartLine<elementIndex>:int = line;
  var <label>StartCharPos<elementIndex>:int = charPositionInLine;
  <if(scope)><scope:delegateName()>.m<rule.name>(<args; separator="", ");
  <checkRuleBacktrackFailure()>
  <label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
  TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
  <label>.line = <label>StartLine<elementIndex>;
  <label>.charPositionInLine = <label>StartCharPos<elementIndex>;
  <else>
  <if(scope)><scope:delegateName()>.m<rule.name>(<args; separator="", ");
  <checkRuleBacktrackFailure()>
  </endif>
  </endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(rule,label,args,elementIndex,scope)>
  <listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
  var <label>Start<elementIndex>:int = charIndex;
  var <label>StartLine<elementIndex>:int = line;
  var <label>StartCharPos<elementIndex>:int = charPositionInLine;
  match(EOF); <checkRuleBacktrackFailure()>
  var <label>:<labelType> = CommonToken.createFromStream(input, EOF,
  TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
  <label>.line = <label>StartLine<elementIndex>;
  <label>.charPositionInLine = <label>StartCharPos<elementIndex>;
  <else>
  match(EOF); <checkRuleBacktrackFailure()>
  <endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "var <recRuleArg()>:int"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>._primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
   if ( input.LA(1)==TokenConstants.DOWN ) {
     <children:element()>
     matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
     <children:element()>
     matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   }<else>
   <children:element()>
   matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
   <children:element()>
   matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   <endif>
>>

/** Every predicate is used as a validating predicate (even when it is 
*  also hoisted into a prediction expression). 
*/
validateSemanticPredicate(pred,description) ::= <<
   if ( !(<evalPredicate(pred,description)>) ) {
     <ruleBacktrackFailure()>
     throw new FailedPredicateException(input, "<ruleName>", "<description>");
   }
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   var LA<decisionNumber>_stateNumber:int = input.LA(<k>);<\n>
   <edges; separator="\nelse ">
   else { 
   if(eotPredictsAlt) 
     alt<decisionNumber>=<eotPredictsAlt>;
   <else>
   <ruleBacktrackFailure()>
     throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
   <![ Need to add hook for noViableAltException() ]>
   <endif>
   }<\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead 
* for the bypass alternative. It delays error detection but this 
* is faster, smaller, and more what people expect. For (X)? people 
* expect "if ( LA(1)==X ) match(X);" and that's it. 
*/
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */

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<if(eotPredictsAlt)>
  alt<decisionNumber> = eotPredictsAlt;
<else>
  <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
</else>
<endif>
]
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch (input.LA(<k>)) {
    <edges; separator="\n">
  }
>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch (input.LA(<k>)) {
    <edges; separator="\n">\n    <if(eotPredictsAlt)>
      default:
        alt<decisionNumber> = eotPredictsAlt;
        break;
    <endif>
  }
>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
  <labels:{it | case <it>}; separator="\n">\n    {\n    <targetState>
  }
  break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
  alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>
cyclicDFACtor(dfa) ::= <<
  dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>),
"<dfa.description>",
DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
DFA<dfa.decisionNumber>_specialStateTransition<endif>);

>>
/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thank fully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
private const DFA<dfa.decisionNumber>_eot:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap="\n        "">";)
private const DFA<dfa.decisionNumber>_eof:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap="\n        "">";)
private const DFA<dfa.decisionNumber>_min:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap="\n        "">", true);
private const DFA<dfa.decisionNumber>_max:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap="\n        "">", true);
private const DFA<dfa.decisionNumber>_accept:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap="\n        "">";)
private const DFA<dfa.decisionNumber>_special:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap="\n        "">";)
private const DFA<dfa.decisionNumber>_transition:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedTransition:{s|DFA.unpackEncodedString("<s; wrap="\n        "">")}; separator=""," >")
<if(dfa.specialStateSTs)>
private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:IntStream):int {
    <if(LEXER)>
    var input:IntStream = _input;
    <endif>
    <if(PARSER)>
    var input:TokenStream = TokenStream(_input);
    <endif>
    <if(TREE_PARSER)>
    var input:TreeNodeStream = TreeNodeStream(_input);
    <endif>
    var _s:int = s;
    switch ( _s ) {
        <if(dfa.specialStateSTs):[state]
        case <i0> : <! compressed special state numbers 0..n-1 !>
            <state>;
        <endif>
    
    } separator="\n"
<if(backtracking)>
    if (this.state.backtracking>0) [this.state.failed=true; return -1;]<\n
<endif>
    throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
}<\n
protected var dfa<dfa.decisionNumber>:DFA;  // initialized in constructor

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    var LA<decisionNumber>_<stateNumber>:int = input.LA(1);<\n
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    var index<decisionNumber>_<stateNumber>:int = input.index;
    input.rewind();<\n
<endif>
    s = -1;
    <edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
    input.seek(index<decisionNumber>_<stateNumber>);<\n
<endif>
    if ( s>=0 ) return s;
    break;
<\n
<endif>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
    if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<\n
<endif>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
    s = <targetStateNumber>;<\n
<endif>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="\|">")"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}>)")

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere.  Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lowerAsInt> && LA<decisionNumber>_<stateNumber> <= <upperAsInt>)
%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >= <lowerAsInt> && input.LA(<k>) <= <upperAsInt>)"

setTest(ranges) ::= <<
<ranges; separator="\|">
>>

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>._stack:Array = new Array();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>._stack:Array = new Array();<\n>
<endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnStructName()>
<else>


---

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/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
@if(referencedRule.hasMultipleReturnValues)
<returnStructName()>
@else
@if(referencedRule.hasSingleReturnValue)
<referencedRule.singleValueReturnType>
@else
void
@endif
@endif
>>

delegateName(d) ::= <<
@if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */
initValue(typeName) ::= <<
<asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;

>>

/** Define a return struct for a rule if the code needs to access its start/stop tokens, tree stuff, attributes, ... Leave a hole for subgroups to stick in members. */
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
<scope.attributes:{it |public <it.decl>;}; separator=""}
parameterScope(scope) ::= <<
<scope.attributes:{it |<it.name>:<it.type>}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name> =<expr>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
*  to stack itself not top of stack. This is useful for predicates
*  like {$function.size()>0 && $function::name.equals("foo")}? 
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMoreReturnValues)>
(<scope>!null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
>>
returnAttributeRef(ruleDescriptor, attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!=null?<scope>.text:"

tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.type:"

tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!=null?<scope>.line:"

tokenLabelPropertyRef_pos(scope, attr) ::= " (<scope>!=null?<scope>.charPositionInLine:"

tokenLabelPropertyRef_channel(scope, attr) ::= " (<scope>!=null?<scope>.channel:"

tokenLabelPropertyRef_tree(scope, attr) ::= " (<scope>!=null?<scope>.tree:"

tokenLabelPropertyRef_int(scope, attr) ::= " (<scope>!=null?int(<scope>.text):"

ruleLabelPropertyRef_start(scope, attr) ::= " (<scope>!=null?<labelType>(<scope>.start):"

ruleLabelPropertyRef_stop(scope, attr) ::= " (<scope>!=null?<labelType>(<scope>.stop):"

ruleLabelPropertyRef_tree(scope, attr) ::= " (<scope>!=null?<ASTLabelType>(<scope>.tree):"

ruleLabelPropertyRef_text(scope, attr) ::= " (<scope>!=null?<scope>.text:"

<if(TREE_PARSER)>
(<scope>!=null?(input.tokenStream.toStringWithRange(
   input.treeAdaptor.getTokenStartIndex(<scope>.start),
   input.treeAdaptor.getTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.toStringWithTokenRange(<scope>.start, <scope>.stop):null)
<endif>
ruleLabelPropertyRef_st(scope,attr) ::= "((scope) !=null?(scope).st: null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((scope) !=null?(scope).type: 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((scope) !=null?(scope).lien: 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((scope) !=null?(scope).charPositionInLine: 0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((scope) !=null?(scope).channel: 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((scope) !=null?(scope).tokenId: 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((scope) !=null?(scope).text: null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((scope) !=null?int((scope).text): 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= "<<
   if(TREE_PARSER) 
      input.tokenStream.toStringWithRange(input.treeAdaptor.getTokenStartIndex(retval.start),
      input.treeAdaptor.getTokenStopIndex(retval.start))
   else 
      input.toStringWithTokenRange(retval.start,input.LT(-1))
<<
   rulePropertyRef_st(scope,attr) ::= " retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= ".channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int((scope).text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) { 
    <action>
  }
  <else>
    <action>
  <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
  public static const <name>: BitSet = new BitSet([<words64:{it |<it>};separator",">]);
>>

codeFileExtension() ::= ".as"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
No license file was found, but licenses were detected in source scan.

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*/

group Perl5;

/** The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code.
 */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,

docComment, recognizer,

name, tokens, tokenNames, rules, cyclicDFAs,

bitsets, buildTemplate, buildAST, rewriteMode, profile,

backtracking, synpreds, memoize, numRules,

fileName, ANTLRVersion, generatedTimestamp, trace,

scopes, superClass, literals) ::= <<

# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<actions.(actionScope).header>

#@imports>

@if(TREE_PARSER)><endif>

@if(backtracking)><endif>

@end>

<docComment>
<recognizer>

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",

filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<

package <name>;

use Carp;
use English qw(-no_match_vars);


use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

use Moose;

extends 'ANTLR::Runtime::Lexer';

Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
sub HIDDEN [ $HIDDEN ]

use constant {
  <tokens:[ <it.name> => <it.type>, ]; separator="\n">
};
<scopes:[<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> ]>
<actions.lexer.members>

sub BUILD {
  my ($self, Sarg_ref) = @_;

  $self->init_dfas();
}

sub get_grammar_file_name {
  return "<fileName>";
}
<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}> |

<cyclicDFAs:{dfa | has 'dfa<dfa.decisionNumber>';}; separator="\n"} |

sub init_dfas {
  my ($self) = @_;

  <cyclicDFAs:{dfa | $self->dfa<dfa.decisionNumber>({name}::DFA<dfa.decisionNumber>-new({ recognizer => $self }));}; separator="\n">

  return;
}
no Moose;
__PACKAGE__->meta->make_immutable();
1;

>perlTypeInitMap ::= [
    "$":"undef",
    "@":"
    "%":"
    "":"
    default:"undef"
]

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
        channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
        text = null;
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !>
            failed=false;
            mTokens();
            backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <! advance one char and try again !>
            } else {
                emit();
            }
        }
    }
} // filterNextToken()
return token;
}
}
catch (RecognitionException re) {
   // shouldn't happen in backtracking mode, but...
   reportError(re);
   recover(re);
}
}

public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}

> actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   bitsets, inputStreamType, superClass, filterMode,
   ASTLabelType="Object", labelType, members) ::= <<
   package <name>;

   use English qw( -no_match_vars ) ;
   use Readonly;
   use Switch;
   use Carp;
   use ANTLR::Runtime::BitSet;

   use Moose;

   extends '<@superClassName><superClass><@end>';

   Readonly my $token_names => [ 
      "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator=", ">
   ];

---
use constant {
  <tokens:{ <it.name> => <it.type>, }; separator="\n"> 
};

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=it.bits)> 

<scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> }>
  <@members>
  <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
  sub BUILD {
    my ($self, $arg_ref) = @_;
    <if(backtracking)>
      $self->state->rule_memo({});
    <endif>
  }
  <@end>

sub get_token_names {
  return $token_names;
}

sub get_grammar_file_name {
  return "<fileName>";
}

<members>

<rules; separator="\n\n"> 

<synpreds:{p | <synpred(p)>> >

<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>-new($self);}; separator="\n"> 

no Moose;
__PACKAGE__->meta->make_immutable();
1;
__END__

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={ <actions.parser.members> }) ::=<<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>

/** How to generate a tree parser; same as parser except the input stream is a different type. */

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, 
labelType={[<ASTLabelType>], ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser", 
members={<actions.treeparser.members>, filterMode} := << <
<genericParser(inputStreamType="TreeNodeStream", ...)>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc..., just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves. */

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
<if(trace)>
$self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
  eval {
    <block>
 );
$self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
if ($EVAL_ERROR) {
  croak $EVAL_ERROR;
}
<else>
  <block>
<endif>
}
# $ANTLR end <ruleName>

synpred(name) ::= <<
public final boolean <name>() {
  backtracking++;
  <@start()>
  int start = input.mark();
  try {
    <name>_fragment(); // can never throw exception
  } catch (RecognitionException re) {

>>
System.err.println("impossible: "+re);
}
boolean success = !failed;
input.rewind(start);
_back()
backtracking--;
failed=false;
return success;
}
>
>
lexerSynpred(name) ::= <<
synpred(name)
>>
ruleMemoization(name) ::= <<
<if(memoize)>
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue>(); }<endif>
>>
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if ($self->state->failed) {
  return <ruleReturnValue>();
}
<endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) {failed=true; return <ruleReturnValue>();}<endif>
>>
/** How to generate code for a rule. This includes any return type *
* data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
  my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_;
  if(trace)$$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp>()
  <ruleDeferredCalls>
<ruleDeclarations/>
<ruleLabelDefs/>
<ruleDescriptor.actions.init>
</@preamble>

eval {
  <ruleMemoization(name=ruleName)>
  <block>
  <ruleCleanUp()>
  <(ruleDescriptor.actions.after):execAction()>
  
  </if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><un>}}>
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
  <else>

  my $exception = $EVAL_ERROR;
  if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
    $self->report_error($exception);
    $self->recover($self->input, $exception);
    $exception = undef;
  }
  <un>
  <endif>
  <endif>
  <endif>
  <if(trace)>
  $self->traceOut("<ruleName>", <ruleDescriptor.index>);
  <endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
  if ($exception) {
    croak $exception;
    #$exception->rethrow();
  }
  <@postamble()>
  return <ruleReturnValue()>
  }

  # $ANTLR end <ruleName>

  catch(decl,action) ::= <
    catch (<e.decl>) {
    <e.action>
    }
  >

  ruleDeclarations() ::= <

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my $retval = <returnType()>->new();
$retval->set_start($self->input->LT(1));<<
}>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
my $<a.name> = $<if(a.initValue)>a.initValue<<else>a.initValue(a.type)<<endif>;
}>
<endif>
<if(memoize)>
my $<ruleDescriptor.name>_start_index = $self->input->index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>{my $<it.label.text> = undef;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>{List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charsetLabels:{my $<it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>{List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
</if>
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
</if>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
  </block>
  <ruleMemoization(name=ruleName)>
<else>
  my $_type = <ruleName>;
  my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
</if>
}
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
$self->state->type($_type);
$self->state->channel($_channel);
<ruleDescriptor.actions.after>:execAction()>
<endif>
};
;if(trace)traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>
if ($EVAL_ERROR) {
   croak $EVAL_ERROR;
}
}
#$ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule */
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock, args, block, ruleDescriptor) ::= <<
sub m_tokens {  
   my ($self) = @_;  
   <block>n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
# <fileName>::<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ($alt<decisionNumber>) {
   <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
# <fileName>::<description>
croak $eee;
}
}
++$cnt<decisionNumber>;
}
</@postloop()>
>>&

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
<decls>
</@preloop()>
LOOP<decisionNumber>:
while (1) {
  my $alt<decisionNumber> = <maxAlt>;
  </@predecision()>
  <decision>
  </@postdecision()>
  switch ($alt<decisionNumber>) {
  <alts:altSwitchCase()>
  else { last LOOP<decisionNumber> }
  }
}
</@postloop()>
>>&

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
onlyBlock ::= block

/** A case in a switch that jumps to an alternative given the alternative * number. A DFA predicts the alternative and then a simple switch * does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i> { 
  </@prealt()>
  <it>
} \n


/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= <<
# <fileName>:<description>
{
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build *
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  <@prematch()>
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token, label, elementIndex, terminalOptions) ::= <<
  <if(label)>$<label> = $self->match($self->input, <token>, $FOLLOW_<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token, label, elementIndex, terminalOptions) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
>>

listLabel(label, elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

/** match a character */
charRef(char, label) ::= <<
  <if(label>)
  <label> = $self->input->LA(1);<\n>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<
>
<endif>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",:) ::= <<
<if(label)>
<if(LEXER)>
<label>= $self->input->LA(1);<
>
<else>
<label>=(<labelType>)input.LT(1);<
>
<endif>
<endif>
if ( s ) {
    $self->input->consume();
    <postmatchCode>
    <if(!LEXER)>
    $self->state->error_recovery(0);
    <endif>
    <if(backtracking)>failed=false;<endif>
} else {
    <ruleBacktrackFailure()>
    my $mse = 
        ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
    <@mismatchedSetException()>
    <if(LEXER)>
    $self->recover($mse);
    $mse->throw();
    <else>
    $mse->throw();
    <! use following code to make it recover inline; remove throw mse;>
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    !>
    <endif>
} <
>
>>

matchRuleBlockSet ::= matchSet
matchSetAndListLabel(s, label, elementIndex, postmatchCode) ::= <<
<matchSet(...)>
<typename(label,elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string, label, elementIndex) ::= <<
<if(label)>
int labelStart = getCharIndex();
$self->match(string); <checkRuleBacktrackFailure()>
<labelType> label = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
<else>
$self->match(string); <checkRuleBacktrackFailure()></
<endif>
>>

wildcard(label, elementIndex) ::= <<
<if(label)>
<label> = $self->input->LT(1);<
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = $self->input->LA(1);<
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<typename(label,elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>

---

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$<label> = $self-><rule.name>(<args; separator="", ">);<\n>
<else>
$self-><rule.name>(<args; separator="", ">);<\n>
<endif>
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule>/(<args; separator="", ">); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
$self->m_<rule.name>/(<args; separator="", ">); <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)> 
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>
/** match ^<root children> in tree parser */
tree(<root>, actions:AfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
        match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
        <children:element()>
        match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    } <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
  * also hoisted into a prediction expression).
  */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
    @noViableAltException()>
    if (eotPredictsAlt) {
        $alt<decisionNumber> = eotPredictsAlt;
    } else {
        <ruleBacktrackFailure()>
        my $nvaek = ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => "<description>",
            decision_number => <decisionNumber>,
            state_number => <stateNumber>,
            input => $self->input,
        });<
        @noViableAltException()>
        croak $nvaek;<
    }
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
<edges; separator="nels">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
<edges; separator="nels"><
<if(eotPredictsAlt)<
<if(!edges)<
$alt<decisionNumber> = <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
   $alt<decisionNumber> = <eotPredictsAlt>;
}<
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)&& (<predicates>)<endif>) {
   <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n">
  else {
    <if(eotPredictsAlt)>
      $alt<decisionNumber> = <eotPredictsAlt>;
    <else>
      <ruleBacktrackFailure()>
      my $nvaef = ANTLR::Runtime::NoViableAltException->new({
        grammar_decision_description => "<description>",
        decision_number => <decisionNumber>,
        state_number => <stateNumber>,
        input => $self->input,
      });<\n>
      @$noViableAltException()>
      croak $nvaef;<\n>
      <endif>
    }<\n>
  }
}<\n>
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
  <edges; separator="\n">
  <if(eotPredictsAlt)>
  else { $alt<decisionNumber> = <eotPredictsAlt> }<\n>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
  case {[<labels:{ <it> }; separator="",]>} {[<targetState>}]
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/

dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>-&gt;predict($self-&gt;input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA-&gt;unpack_rle([<dfa.javaCompressedEOT; separator=', '> ]); 
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA-&gt;unpack_rle([<dfa.javaCompressedEOF; separator=', '> ]); 
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA-&gt;unpack_rle([<dfa.javaCompressedMin; separator=', '> ]); 
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA-&gt;unpack_rle([<dfa.javaCompressedMax; separator=', '> ]); 
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA-&gt;unpack_rle([<dfa.javaCompressedAccept; separator=', '> ]); 
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA-&gt;unpack_rle([<dfa.javaCompressedSpecial; separator=', '> ]); 
Readonly my $DFA<dfa.decisionNumber>_transition => [<dfa.javaCompressedTransition:{s|ANTLR::Runtime::DFA-&gt;unpack_rle([<s; separator=', '> ]); separator=', '> }]];

{ package <name>::DFA<dfa.decisionNumber>;
  use ANTLR::Runtime::Class;
  use strict;
  use warnings;
  extends 'ANTLR::Runtime::DFA';

  sub BUILD {
    my $self = shift;
    my $param_ref = __PACKAGE__-&gt;unpack_params(underline, {spec =&gt; [
      {name =&gt; 'recognizer',
        isa =&gt; 'ANTLR::Runtime::BaseRecognizer'
      }
    ]);

    ...
$self->recognizer($param_ref->{recognizer});
$self->decision_number(<dfa.decisionNumber>);
$self->eot($DFA<dfa.decisionNumber>_eot);
$self->eof($DFA<dfa.decisionNumber>_eof);
$self->min($DFA<dfa.decisionNumber>_min);
$self->max($DFA<dfa.decisionNumber>_max);
$self->accept($DFA<dfa.decisionNumber>_accept);
$self->special($DFA<dfa.decisionNumber>_special);
$self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
    return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
    my ($self, $param_ref) = unpack_params(@_, {spec => [
        {name => 's',
            type => SCALAR,}
        {name => 'input',
            isa  => 'ANTLR::Runtime::IntStream',
            }]
    });
    my $s = $param_ref->{s};
    my $input = $param_ref->{input};

    switch ($s) {
        <dfa.specialStateSTs: {state |
            case <i0> { <! compressed special state numbers 0..n-1 !>
                <state>}; separator="\n"}
        }
    }
}<if(backtracking)>
if ($self->state->backtracking > 0) {
    $self->state->failed = 1;
    return -1;
}
my $nvae = \nANTLR::Runtime::NoViableAltException->new({\n    grammar_decision_description => $self->get_description(),\n    decision_number => <dfa.decisionNumber>,\n    state_number => $s,\n    input => $input,\n});\n$self->error($nvae);\n$nvae->throw();\n\n/** A state in a cyclic DFA; it's a special state and part of a big switch on * state. */\ncyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<\nmy $input = $self->input;\nmy $LA<decisionNumber>_<stateNumber> = $input->LA(1);\n<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>\n    my $index<decisionNumber>_<stateNumber> = $input->index();\n    $input->rewind();\n<endif>\n    s = -1;\n<edges; separator="\nels">\n<if(semPredState)> <! return input cursor to state before we rewound !>\n    input.seek(index<decisionNumber>_<stateNumber>);\n<endif>\n    if ( s>=0 ) return s;\nbreak;\n>>\n
/** Just like a fixed DFA edge, test the lookahead and indicate what * state to jump to next if successful. */\ncyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<\n    if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}\n>>\n
/** An edge pointing at end-of-token; essentially matches any char; * always jump to the target. */\neotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<\n    s = <targetStateNumber>;\n>>
// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "(<operands; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(…)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly. */

isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
  ($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "($self->input->LA(<k>) ge <lower> && $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
  <if(scope.attributes)>
    protected static class <scope.name>_scope {
      <scope.attributes:{<it.decl>;}; separator="\n"}
    }
  protected Stack <scope.name>_stack = new Stack();\n  <endif>
>>

ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
    protected static class <scope.name>_scope {
      <scope.attributes:{<it.decl>;}; separator="\n"}
    }
  protected Stack <scope.name>_stack = new Stack();\n>>
/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "undef". */
initValue(typeName) ::= <<
<if(typeName)>
<perlTypeInitMap.(typeName)>
<else>
undef
<endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<
>>

/** Define a return struct for a rule if the code needs to access its start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
{
 package <returnType()>
 use ANTLR::Runtime::Class;

 extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

 <scope.attributes:[public <it.decl>;]; separator="\n">
  @ruleReturnMembers()
 }
@endIfReturnMembers()

 parameterScope(scope) ::= <<
 <scope.attributes:[${<it.name}>]; separator="",">

>>

 parameterAttributeRef(attr) ::= "$<attr.name>"
 parameterSetAttributeRef(attr,expr) ::= "$<attr.name> =<expr>;;"

 scopeAttributeRef(scope,attr,index,negIndex) ::= <<
@if(negIndex)
 ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
@else
@if(index)
 ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
@else
 ((<scope>_scope)<scope>_stack.peek()).<attr.name>
@endIfIndex
@endIfIndex
@endIfNegIndex

>>

 scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
@if(negIndex)
 ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
@else
@if(index)
 ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
@else
 ((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
@endIfIndex
@endIfIndex
@endIfNegIndex

>>

 /** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  $<scope>.<attr.name>
  <else>
  $<scope>
  <endif>
  >>
returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  $<attr.name>
  <endif>
  >>
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> =<expr>;
  <else>
  $<attr.name> =<expr>;
  <endif>
  >>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "$<scope>-gt_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "$<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "$<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "$<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "$<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "$<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "$<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
  <else>
  substr($self->input, $<scope>->start, $<scope>->stop)
  <endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))
  <else>
  input.toString(retval.start,input.LT(-1))
  <endif>
>>

rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"
// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> ) {
<action>
}
<else>
if ( backtracking==0 ) {
<action>
}
<endif>
<else>
<action>
<endif>
>>
// M I S C (properties, etc...)
bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ]
});<\n>
>>
codeFileExtension() ::= ".pm"
true() ::= "1"
false() ::= "0"
Found in path(s):
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package org.stringtemplate.v4.compiler;

import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
import java.util.List;
import java.util.ArrayList;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
import java.io.File;

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*/
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.*;
import org.stringtemplate.v4.misc.*;
import java.io.File;
}
@members {
public STGroup group;
@Override
public void displayRecognitionError(String[] tokenNames,
RecognitionException e)
{
String msg = getErrorMessage(e, tokenNames);
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
@Override
public String getSourceName() {
String fullFileName = super.getSourceName();
File f = new File(fullFileName); // strip to simple name
return f.getName();
}
public void error(String msg) {
NoViableAltException e = new NoViableAltException("", 0, 0, input);
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
recover(input, null);
}
}
@lexer::members {
public STGroup group;
@Override
public void reportError(RecognitionException e) {
String msg = null;
if ( e instanceof NoViableAltException ) {
msg = "invalid character '"+(char)input.LA(1)+"'";
}
else if ( e instanceof MismatchedTokenException && ((MismatchedTokenException)e).expecting=='"' ) {
msg = "unterminated string";
}
else {
msg = getErrorMessage(e, getTokenNames());
}
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}

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```java
@Override
public String getSourceName() {
    String fullFileName = super.getSourceName();
    File f = new File(fullFileName); // strip to simple name
    return f.getName();
}
}

t : STGroup group, String prefix
@init {
GroupLexer lexer = (GroupLexer)input.getTokenSource();
this.group = lexer.group = $group;
}
:oldStyleHeader?
delimiters?
    ('import' STRING {group.importTemplates($STRING);})
[import] // common error: name not in string
{ 
MismatchedTokenException e = new MismatchedTokenException(STRING, input);
reportError(e);
}
ID ('. ID)* // might be a.b.c.d
)*
def[prefix]*
EOF
;

oldStyleHeader // ignore but lets us use this parser in AW for both v3 and v4
: group' ID ( ':' ID )?
    ('implements' ID (' ID)* )?
    '
;

groupName returns [String name]
@init {StringBuilder buf = new StringBuilder();}
:a=ID {buf.append($a.text);}( '.' a=ID {buf.append($a.text);})*
;
delimiters
    ':delimiters' a=STRING ',' b=STRING
{
    group.delimiterStartChar=a.getText().charAt(1);
    group.delimiterStopChar=b.getText().charAt(1);
    }
;

/** Match template and dictionary defs outside of (...)+ loop in group. 
* The key is catching while still in the loop; must keep prediction of
*/
```
* elements separate from "stay in loop" prediction.

```java
def[String prefix] : templateDef[prefix] | dictDef ;
catch[RecognitionException re] {
    // pretend we already saw an error here
    state.lastErrorIndex = input.index();
    error("garbled template definition starting at "'+input.LT(1).getText()+"'");
}

templateDef[String prefix]
@init {
    String template=null;
    int n=0; // num char to strip from left, right of template def
}
    (@'enclosing=ID '.' name=ID '(' ')'
    |name=ID '(' formalArgs ')'
    )
     ::='
    {Token templateToken = input.LT(1);}
(STRING     {template=$STRING.text; n=1;}
 |BIGSTRING  {template=$BIGSTRING.text; n=2;}
 |BIGSTRING_NO_NL  {template=$BIGSTRING_NO_NL.text; n=2;}
 |
    template = "";
    String msg = "missing template at "'+input.LT(1).getText()+"'";
    NoViableAltException e = new NoViableAltException("", 0, 0, input);
    group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
)
    }
    if ( $name.index >= 0 ) { // if ID missing
        template = Misc.strip(template, n);
        String templateName = $name.text;
        if ( prefix.length()>0 ) templateName = prefix+$name.text;
        String enclosingTemplateName = $enclosing.text;
        if (enclosingTemplateName != null && enclosingTemplateName.length()>0 && prefix.length()>0) {
            enclosingTemplateName = prefix + enclosingTemplateName;
        }
        group.defineTemplateOrRegion(templateName, enclosingTemplateName, templateToken,
        template, $name, $formalArgs.args);
    }
    | alias=ID '::=' target=ID  {group.defineTemplateAlias($alias, $target);}
    ;
}
formalArgs returns[List<FormalArgument> args = new ArrayList<FormalArgument>()]
scope {
    boolean hasOptionalParameter;
```
@init { $formalArgs::hasOptionalParameter = false; }
:formalArg[$sargs] (',' formalArg[$sargs])*
;

formalArg[List<FormalArgument> $args]
:id
(='a='(STRING|ANONYMOUS_TEMPLATE|true|false) {$formalArgs::hasOptionalParameter = true;}
|='a='[ ] {$formalArgs::hasOptionalParameter = true;}
|
if ($formalArgs::hasOptionalParameter) {
    group.errMgr.compileTimeError(ErrorType.REQUIRED_PARAMETER_AFTER_OPTIONAL, null, $id);
}
)

[$sargs.add(new FormalArgument($id.text, a));]
;

/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
  :  OPTIONAL
  |  STAR
  |  PLUS
  |
  */
dictDef
:id '::=' dict
    |
    if (group.rawGetDictionary($id.text)!=null) {
        group.errMgr.compileTimeError(ErrorType.MAP_REDEFINITION, null, $id);
    }
    else if (group.rawGetTemplate($id.text)!=null) {
        group.errMgr.compileTimeError(ErrorType.TEMPLATE_REDEFINITION_AS_MAP, null, $id);
    }
    else {
        group.defineDictionary($id.text, $dict.mapping);
    }
    }

dict returns [Map<String, Object> mapping]
@init { mapping=new HashMap<String, Object>(); }
  ['dictPairs[mapping]']
;
dictPairs[Map<String, Object> mapping]
   :keyValuePair[mapping]
      (', ' keyValuePair[mapping])* (', ' defaultValuePair[mapping])?
   | defaultValuePair[mapping]
   ;
catch[RecognitionException re] {
   error("missing dictionary entry at "+input.LT(1).getText()+""+""+""');
}
defaultValuePair[Map<String, Object> mapping]
   :'default' ':' keyValue { mapping.put(STGroup.DEFAULT_KEY, $keyValue.value); }
   ;
keyValuePair[Map<String, Object> mapping]
   :STRING ':' keyValue { mapping.put(Misc.replaceEscapes(Misc.strip($STRING.text, 1)), $keyValue.value); }
   ;
keyValue returns [Object value]
   :BIGSTRING {$value = group.createSingleton($BIGSTRING);}
   | BIGSTRING_NO_NL {$value = group.createSingleton($BIGSTRING_NO_NL);}
   | ANONYMOUS_TEMPLATE {$value = group.createSingleton($ANONYMOUS_TEMPLATE);}
   | STRING {$value = Misc.replaceEscapes(Misc.strip($STRING.text, 1));}
   | TRUE {$value = true;}
   | FALSE {$value = false;}
   ['']? {$value = Collections.emptyList();}
   | (input.LT(1).getText().equals("key")? => ID
   | {$value = STGroup.DICT_KEY; }
   ;
catch[RecognitionException re] {
   error("missing value for key at "+input.LT(1).getText()+""+""');
}
ID: (a..z|A..Z|\_ ) (a..z|A..Z|0..9|\_)*
   ;
STRING
   :'''
   (\" '''
   | \~'''
   |{
   String msg = "\n in string";
   NoViableAltException e = new NoViableAltException("", 0, 0, input);
   group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
   }
   |'\n'
   |(~(\"|\''|'\n')
   )*
/** Match <<...>> but also allow <<..<x>>> so we can have tag on end.
   Escapes: >\> means >> inside of <<...>>.
   Escapes: \>> means >> inside of <<...>> unless at end like <<...
   In that case, use <%..>>\> instead.
*/
BIGSTRING
	'<<'
(options {greedy=false;}
	'\' '>' // \> escape
	'|' '\'' // allow this but don't collapse in action
	'|' '\''
)*
	'>>'
{
    String txt = getText();
    txt = Misc.replaceEscapedRightAngle(txt); // replace \> with > unless <\>
    setText(txt);
} ;

ANONYMOUS_TEMPLATE
	'{'
{ Token templateToken = new CommonToken(input, ANONYMOUS_TEMPLATE, 0, getCharIndex(),
    getCharIndex());
    STLlexer lexer =
    new STLlexer(group.errMgr, input, templateToken, group.delimiterStartChar, group.delimiterStopChar);
    lexer.subtemplateDepth = 1;
    Token t = lexer.nextToken();
    while ( lexer.subtemplateDepth>=1 || t.getType()!=STLexer.RCURLY ) {
        if ( t.getType()==STLexer.EOF_TYPE ) {
            MismatchedTokenException e = new MismatchedTokenException('}',' input);
        }
    }
} ;
String msg = "missing final '}' in {...} anonymous template";
    group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
    break;
}
t = lexer.nextToken();
}
}
// don't match '}') here; our little {...} scanner loop matches it
// to terminate.
;
COMMENT
   : '/"" ( options {greedy=false;} : . )"*/" {skip();}
      ;

LINE_COMMENT
   : /* ~(\n|\r)/* \r? \n {skip();}
      ;

WS : (\|\t|\n) {skip();}

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/Group.g
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/antlr/gunit/GrammarInfo.java
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/GrammarSyntaxMessage.java
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 */
/** Template overrides to add debugging to normal Java output;
 * If ASTs are built, then you'll also get ASTDbg.stg loaded.
 */

@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot>
public static readonly string[] ruleNames =
new string[]
@endif>
{  
"invalidRule", <grammar.allImportedRules:{$ST | "<ST.name>"}}; wrap="\n", separator=".">  
};<\n>  
<endif>
<if(grammar.grammarIsRoot)></grammarImportsOtherGrammar>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }  
public virtual void IncRuleLevel() { ruleLevel++; }  
public virtual void DecRuleLevel() { ruleLevel--; }  
<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<if(! imported grammar )>
public int RuleLevel { get { return <grammar.delegators:{$g| <g.delegateName()}>.RuleLevel; } }  
public void IncRuleLevel() { <grammar.delegators:{$g| <g.delegateName()}>.IncRuleLevel(); }  
public void DecRuleLevel() { <grammar.delegators:{$g| <g.delegateName()}>.DecRuleLevel(); }  
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )  
{  
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);  
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,  
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);  
return base.AlreadyParsedRule(input, ruleIndex);  
}<\n>  
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )  
{  
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,  
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);  
base.Memoize(input, ruleIndex, ruleStartIndex);  
}<\n>  
protected virtual bool EvalPredicate( bool result, string predicate )  
{  
dbg.SemanticPredicate( result, predicate );  
return result;  
}<\n>  
}  

ctorForRootGrammar() ::= <<  
<! bug: can't use @super.members() cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )  
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )

}
ctorForProfilingRootGrammar() ::= <<
/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<

ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg )
@superClassRef>: base( input, dbg, new RecognizerSharedState() )</end>
{
@if(profile)
Profiler p = (Profiler)dbg;
p.setParser(this);
@end
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<parserCtorBody()>
@finally(){}

createListenerAndHandshake() ::= <<
@if(TREE_PARSER)
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );
#else
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );
@end
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>
@genericParser.superClassName() ::= "Debug.@super.superClassName()"
/*
 * Many of the following rules were merged into CSharp2.stg.
 */
@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
//dbg.EnterRule( GrammarFileName, "<ruleName>" );


/\!	if ( RuleLevel == 0 )
/\{
/\t//dbg.Commence();
/\} //IncRuleLevel();
/\t//dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );<\n>
/\//

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();
>> //@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNodeline>, <ruleDescriptor.EORNodeline.charPositionInLine>);<\n>
//finally
//{
////dbg.ExitRule( GrammarFileName, "<ruleName>");
//DecRuleLevel();
//if ( RuleLevel == 0 )
//{
////dbg.Terminate();
////}
//} <\n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{
////dbg.EnterSubRule( <decisionNumber> );<\n>
////>

//exitSubRule() ::= <<
//}
//finally
//{
////dbg.ExitSubRule( <decisionNumber> );
//} <\n>
//>>

//enterDecision() ::= <<
//try
//
//dbg.EnterDecision( <decisionNumber> );<n>
//>

//exitDecision() ::= <<
//}
//finally
//{
//dbg.ExitDecision( <decisionNumber> );
//}<n>
//>

//enterAlt(n) ::= "dbg.EnterAlt( <n> );"</n>

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()> <enterDecision()>">
//@block.postdecision() ::= "<exitDecision()>">
//@block.postbranch() ::= "<exitSubRule()>">
//@ruleBlock.predecision() ::= "<enterDecision()>">
//@ruleBlock.postdecision() ::= "<exitDecision()>">
//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>">
//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>">
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>">
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>">
//@positiveClosureBlock.predecision() ::= "<enterDecision()>">
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>">
//@positiveClosureBlock.earlyExitException() ::= 
//"dbg.RecognitionException( eee<decisionNumber> );"</n>
//@closureBlock.preloop() ::= "<enterSubRule()>">
//@closureBlock.postloop() ::= "<exitSubRule()>">
//@closureBlock.predecision() ::= "<enterDecision()>">
//@closureBlock.postdecision() ::= "<exitDecision()>">
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

//@element.prematch() ::= 
//"dbg.Location( <it.line>, <it.pos> );"

//@matchSet.mismatchedSetException() ::= 
//"dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

dfaDecision(decisionNumber,description) ::= <<
//try
//{
//isCyclicDecision = true;
//<super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
//dbg.RecognitionException( nvae );
//throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
//{
//((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= << 
EvalPredicate(<pred>, "<description>")
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/Dbg.stg
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*/
/*
New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:">

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/templates/messages/formats/antlr.stg
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/ITestCase.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/ITestSuite.java
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package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** A parser used to break up a single template into chunks, text literals and attribute expressions. */
class TemplateParser extends Parser {

protected StringTemplate self;

public void reportError(RecognitionException e) {
    StringTemplateGroup group = self.getGroup();
    if (group==StringTemplate.defaultGroup) {
        self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
    }
    else {
        self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
    }
}

template[StringTemplate self] {
    this.self = self;
}

: ( s:LITERAL {self.addChunk(new StringRef(self,s.getText()));}
    | nl:NEWLINE
    | nl:NEWLINE
        { if ( LA(1)!=ELSE && LA(1)!=ENDIF ) {
            self.addChunk(new NewlineRef(self,nl.getText()));
        }
    } action[self] *)
;
action[StringTemplate self]
: a:ACTION
{
String indent = ((ChunkToken)a).getIndentation();
ASTExpr c = self.parseAction(a.getText());
c.setIndentation(indent);
self.addChunk(c);
}
| i:IF
{
ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
// create and precompile the subtemplate
StringTemplate subtemplate =
new StringTemplate(self.getGroup(), null);
subtemplate.setEnclosingInstance(self);
subtemplate.setName(i.getText()+"_subtemplate");
self.addChunk(c);
}
template[subtemplate] {if ( c!=null ) c.setSubtemplate(subtemplate);}
( ei:ELSEIF
{
ASTExpr ec = self.parseAction(ei.getText());
// create and precompile the subtemplate
StringTemplate elseIfSubtemplate =
new StringTemplate(self.getGroup(), null);
elseIfSubtemplate.setEnclosingInstance(self);
elseIfSubtemplate.setName(ei.getText()+"_subtemplate");
}
template[elseIfSubtemplate]
{if ( c!=null ) c.addElseIfSubtemplate(ec, elseIfSubtemplate);}
)*
( ELSE
{
// create and precompile the subtemplate
StringTemplate elseSubtemplate =
new StringTemplate(self.getGroup(), null);
elseSubtemplate.setEnclosingInstance(self);
elseSubtemplate.setName("else_subtemplate");
}
template[elseSubtemplate]
{if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}

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<table>
<thead>
<tr>
<th>rr:REGION_REF</th>
</tr>
</thead>
</table>
// define implicit template and
// convert <r()> to <region__enclosingTemplate__r()>
String regionName = rr.getText();
String mangledRef = null;
boolean err = false;
// watch out for <super.r()>; that does NOT def implicit region
// convert to <super.region__enclosingTemplate__r()>
if ( regionName.startsWith("super.") ) {
  //System.out.println("super region ref "+regionName);
  String regionRef =
    regionName.substring("super.".length(),regionName.length());
  String templateScope =
    self.getGroup().getUnMangledTemplateName(self.getName());
  StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
  if ( scopeST==null ) {
    self.getGroup().error("reference to region within undefined template: "+
                         templateScope);
    err=true;
  }
  if ( !scopeST.containsRegionName(regionRef) ) {
    self.getGroup().error("template "+templateScope+" has no region called "+
                          regionRef);
    err=true;
  }
  else {
    mangledRef =
      self.getGroup().getMangledRegionName(templateScope,regionRef);
    mangledRef = "super."+mangledRef;
  }
}
else {
  //System.out.println("region ref "+regionName);
  StringTemplate regionST =
    self.getGroup().defineImplicitRegionTemplate(self,regionName);
  mangledRef = regionST.getName();
}
if ( !err ) {
  // treat as regular action: mangled template include
  String indent = ((ChunkToken)rr).getIndentation();
  ASTExpr c = self.parseAction(mangledRef+"()\n");
  c.setIndentation(indent);
  self.parseAction(c);
ld:REGION_DEF
{
String combinedNameTemplateStr = rd.getText();
int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=", 1);
if (indexOfDefSymbol >= 1) {
    String regionName = combinedNameTemplateStr.substring(0, indexOfDefSymbol);
    String template = 
        combinedNameTemplateStr.substring(indexOfDefSymbol + 3, 
        combinedNameTemplateStr.length());
    StringTemplate regionST = 
        self.getGroup().defineRegionTemplate(self, 
        regionName, 
        template, 
        StringTemplate.REGION_EMBEDDED);
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rd).getIndentation();
    ASTExpr c = self.parseAction(regionST.getName() + "()" );
    c.setIndentation(indent);
    self.addChunk(c);
} else {
    self.error("embedded region definition screwed up");
}
}

/** Break up an input text stream into chunks of either plain text 
 * or template actions in "$...$". Treat IF and ENDIF tokens 
 * specially. 
 */
class DefaultTemplateLexer extends Lexer;

options {
    k=7; // see "$endif$"
    charVocabulary = '"u0001'..'uFFFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
        LA(i+5)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
        LA(i+5)=='f'&&LA(i+6)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL
    :   {LA(1)!=''&&LA(1)!='
'}?
        ( options { generateAmbigWarnings=false;}
            {int loopStartIndex=text.length();
             int col=getColumn();
            }
        :   '\'! '$'  // allow escaped delimiter
             |   '\'! '\' // always replace \ with \
             |   '\' ~'$'  // otherwise ignore escape char
             |   ind:INDENT
             {
             if ( col==1 && LA(1)=='$' ) {
                 // store indent in ASTExpr not in a literal
                 currentIndent=ind.getText();
                 text.setLength(loopStartIndex); // reset length to wack text
             }
             else currentIndent=null;
             }
             |   ~('$'|''|'
')
             )+
        {if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent? 
        ;
NEWLINE
    :('\\u001b')? 'n' {newline(); currentIndent=Null;}
    ;

ACTION
    options {
        generateAmbigWarnings=false; // $EXPR$ is ambig with $!...$ 
    }
    int startCol = getColumn();
    :
        LINE_BREAK {$setType(Token.SKIP);}
        // Match escapes not in a string like <\u00e5>
        StringBuffer buf = new StringBuffer(); char uc = '\u0000';
        '$'! (uc=ESC_CHAR {buf.append(uc);})+='$'!
        {setText(buf.toString()); setType(LITERAL);}
        | COMMENT {$setType(Token.SKIP);}
        |   (options {
            generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc... 
        })
        :$!' "if" ( '!' )* "(" IF_EXPR ")" '$'! {$setType(TemplateParser.IF);}
            ( ( '\r' )? 'n'! {newline();})? // ignore any newline right after an IF
        |
        | '$'! "elseif" ( '!' )* "(" IF_EXPR ")" '$'! {$setType(TemplateParser.ELSEIF);}
            ( ( '\r' )? 'n'! {newline();})? // ignore any newline right after an IF
        |
        | '$'! "else" '$'! {$setType(TemplateParser.ELSE);}
            ( ( '\r' )? 'n'! {newline();})? // ignore any newline right after an ELSE
        |
        | '$'! "endif" '$'! {$setType(TemplateParser.ENDIF);}
            ( (startCol==1)? ('\r' )? 'n'! {newline();})? // ignore after ENDIF if on line by itself
        |
        // match $@foo()$ => foo
        // match $@foo$...$@end$ => foo::=...
        '$'! '@'! (~('$'|'('))+(
            "("! '$'! {$setType(TemplateParser.REGION_REF);}
        )| '$'!
        )
        {setType(TemplateParser.REGION_DEF);
        String t=$getText;
        $setText(t+"::=");
    } 
    ( options {greedy=true;} : ( (\r )? 'n'! {newline();})? 
        {boolean atLeft = false;}
        ( options {greedy=true;} // handle greedy=false with predicate
        .( (\r )? 'n'! {newline();} atLeft = true;)
        | {atLeft = false;}
    )}
protected
ESC_CHAR returns [char uc='\u0000']
:'\n'! {uc = 'n';}
:'\r'! {uc = 'r';}
:'\t'! {uc = 't';}
:'\ '! {uc = ' ';}
:'\u'! a:HEX! b:HEX! c:HEX! d:HEX!
{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}

protected
ESC :   '\'. // ('$'|'n'|'t'|'"'|'\'|'{|'}')

protected
HEX: '0..9'|'A..F'|'a..f'

protected
SUBTEMPLATE
 :   '{' (SUBTEMPLATE|ESC|~'}')* '}'

protected
NESTED_PARENS
 :   '(' (options {greedy=false;}:NESTED_PARENS|ESC|~')')+ ')'

protected
INDENT
 :   ( options {greedy=true;}: ' ' | '	')+

protected
COMMENT

{ int startCol = getColumn();
}
 :   "$!"
(options {greedy=false;}
 :   ('\r'? '\n' {newline();}
 | .
)*
"\$" ( {startCol==1}? ('\r'? '\n' {newline();} )?


protected

```java
LINE_BREAK
    :   "$$" (INDENT)? ('\r')? '\n' {newline();} (INDENT)?
    ;
```

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/template.g

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 */

tree grammar CodeGenerator;

    options {
        language=Java;
        tokenVocab=STParser;
        ASTLabelType=CommonTree;
    }

@header {
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;

@members {
String outermostTemplateName:// name of overall template
CompiledST outermostImpl;
Token templateToken:// overall template token
String template; // overall template text
ErrorManager errMgr;
}

public CodeGenerator(TreeNodeStream input, ErrorManager errMgr, String name, String template, Token
templateToken) { 
this(input, new RecognizerSharedState());
this.errMgr = errMgr;
this.outermostTemplateName = name;
this.template = template;
this.templateToken = templateToken;
}

// convience funcs to hide offensive sending of emit messages to
// CompilationState temp data object.

public void emit1(CommonTree opAST, short opcode, int arg) {
    $template::state.emit1(opAST, opcode, arg);
}

public void emit1(CommonTree opAST, short opcode, String arg) {
    $template::state.emit1(opAST, opcode, arg);
}

public void emit2(CommonTree opAST, short opcode, int arg, int arg2) {
    $template::state.emit2(opAST, opcode, arg, arg2);
}

public void emit2(CommonTree opAST, short opcode, String s, int arg2) {
    $template::state.emit2(opAST, opcode, s, arg2);
}

    public void emit(CommonTree opAST, short opcode) {
        $template::state.emit(opAST, opcode);
    }

    public void insert(int addr, short opcode, String s) {
        $template::state.insert(addr, opcode, s);
    }

    public void setOption(CommonTree id) {
        $template::state.setOption(id);
    }

    public void write(int addr, short value) {
        $template::state.write(addr, value);
    }

    public int address() { return $template::state.ip; }

    public void func(CommonTree id) { $template::state.func(templateToken, id); }

    public void refAttr(CommonTree id) { $template::state.refAttr(templateToken, id); }

    public int defineString(String s) { return $template::state.defineString(s); }
}

templateAndEOF : template[null,null] EOF; // hush warning; ignore

template[String name, List<FormalArgument> args] returns [CompiledST impl]
scope {
    CompilationState state; // automatically get a new state pointer per invocation
}

@init {
    $template::state = new CompilationState(errMgr, name, input.getTokenStream());
    $impl = $template::state.impl;
    if ($template.size() == 1) outermostImpl = $impl;
    $impl.defineFormalArgs($args); // make sure args are defined prior to compilation
    if (name!=null && name.startsWith(Compiler.SUBTEMPLATE_PREFIX)) {
        $impl.addArg(new FormalArgument("i"));
        $impl.addArg(new FormalArgument("i0"));
    }
    $impl.template = template; // always forget the entire template; char indexes are relative to it
chunk
} // finish off the CompiledST result
    if ( $template::state.stringtable!=null ) $impl.strings = $template::state.stringtable.toArray();
    $impl.codeSize = $template::state.ip;
};

chunk
:element*
;

element
:^{INDENTED_EXPR INDENT compoundElement[$INDENT]} // ignore indent in front of IF and region blocks
    [compoundElement>null]
|^[INDENTED_EXPR INDENT {$template::state.indent($INDENT);} singleElement
    {$template::state.emit(Bytecode.INSTR_DEDENT);])
|singleElement
;

singleElement
:exprElement
|TEXT
 |
if ( $TEXT.text.length()>0 ) {
    emit1($TEXT,Bytecode.INSTR_WRITE_STR, $TEXT.text);
} }

[NEWLINE {emit($NEWLINE, Bytecode.INSTR_NEWLINE);} ];

compoundElement[CommonTree indent]
:fstat[indent]
|region[indent]
;

exprElement
@init { short op = Bytecode.INSTR_WRITE; }
:^{ EXPR expr (exprOptions {op=Bytecode.INSTR_WRITE_OPT;})? )
 }/*
CompilationState state = $template::state;
CompiledST impl = state.impl;
if ( impl.instrs[state.ip-1] == Bytecode.INSTR_LOAD_LOCAL ) {
    impl.instrs[state.ip-1] = Bytecode.INSTR_WRITE_LOCAL;
} else {
emit($EXPR, op);
}
*/
emit($EXPR, op);
};

region[CommonTree indent] returns [String name]
@init {
if ( indent!=null ) $template::state.indent(indent);
}
@after {
if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
:^(REGION ID
{$name = STGroup.getMangledRegionName(outermostTemplateName, $ID.text);}
template[$name,null]
{
CompiledST sub = $template.impl;
    sub.isRegion = true;
    sub.regionDefType = ST.RegionType.EMBEDDED;
    sub.templateDefStartToken = $ID.token;
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
emit2($start, Bytecode.INSTR_NEW, $region.name, 0);
emit($start, Bytecode.INSTR_WRITE);
})
;

subtemplate returns [String name, int nargs]
@init {
    $name = Compiler.getNewSubtemplateName();
List<FormalArgument> args = new ArrayList<FormalArgument>();
}
:^(SUBTEMPLATE
(^ARGS (ID {args.add(new FormalArgument($ID.text));})+))*
{$nargs = args.size();}
template[$name, args]
{
CompiledST sub = $template.impl;
sub.isAnonSubtemplate = true;
    sub.templateDefStartToken = $SUBTEMPLATE.token;
    sub.ast = $SUBTEMPLATE;
    sub.ast.setUnknownTokenBoundaries();
    sub.tokens = input.getTokenStream();
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
CompiledST sub = new CompiledST();
sub.name = $name;
sub.template = "";
sub.addArg(new FormalArgument("i"));
sub.addArg(new FormalArgument("i0"));
sub.isAnonSubtemplate = true;
sub.templateDefStartToken = $SUBTEMPLATE.token;
sub.ast = $SUBTEMPLATE;
sub.ast.setUnknownTokenBoundaries();
sub.tokens = input.getTokenStream();
//sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
}

ifstat[CommonTree indent]
@init {
/** Tracks address of branch operand (in code block). It's how
 * we backpatch forward references when generating code for IFs.
 */
int prevBranchOperand = -1;
/** Branch instruction operands that are forward refs to end of IF.
 * We need to update them once we see the endif.
 */
List<Integer> endRefs = new ArrayList<Integer>();
if ( indent!=null ) $template::state.indent(indent);
}
@after {
if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
:^(i='if' conditional
{
prevBranchOperand = address()+1;
emit1($i,Bytecode.INSTR_BRF, -1); // write placeholder as branch target
}
chunk
(^eif='elseif'
{
endRefs.add(address()+1);
emit1($eif,Bytecode.INSTR_BR, -1); // br end
// update previous branch instruction
write(prevBranchOperand, (short)address());
prevBranchOperand = -1;
}
ec=conditional
{
    prevBranchOperand = address()+1;
    // write placeholder as branch target
    emit1($ec.start, Bytecode.INSTR_BRF, -1);
}
chunk
)
)*
(^el='else'
{
    endRefs.add(address()+1);
    emit1($el, Bytecode.INSTR_BR, -1); // br end
    // update previous branch instruction
    write(prevBranchOperand, (short)address());
    prevBranchOperand = -1;
}
chunk
)
)}

if ( prevBranchOperand>=0 ) {
    write(prevBranchOperand, (short)address());
}
for (int opnd : endRefs) write(opnd, (short)address());

conditional
:^{(OR conditional conditional){emit($OR, Bytecode.INSTR_OR);} |
    ^(AND conditional conditional){emit($AND, Bytecode.INSTR_AND);} |
    ^(BANG conditional){emit($BANG, Bytecode.INSTR_NOT);}
}[expr // not all expr are valid, but reuse code gen (parser restricts syntax)
;]

exprOptions : {emit($start, Bytecode.INSTR_OPTIONS);} ^(OPTIONS option*) ;

option : ^(' ID expr) {setOption($ID);} ;

expr
@init {int nt = 0, ne = 0;}
:^{(ZIP ^(ELEMENTS (expr {ne++;})+) mapTemplateRef[ne])
    {emit1($ZIP, Bytecode.INSTR_ZIP_MAP, ne);}
    ^(MAP expr (mapTemplateRef[1] {nt++;})+)
    {
        if ( nt>1 ) emit1($MAP, nt>1?Bytecode.INSTR_ROT_MAP:Bytecode.INSTR_MAP, nt);
        else emit($MAP, Bytecode.INSTR_MAP);
prop:^((PROP expr ID){emit1($PROP, Bytecode.INSTR_LOAD_PROP, $ID.text);})
[^((PROP_IND expr expr){emit($PROP_IND, Bytecode.INSTR_LOAD_PROP_IND);})
;

mapTemplateRef[int num_exprs]
:^((INCLUDE ID
{for (int i=1; i<=$num_exprs; i++) emit($INCLUDE,Bytecode.INSTR_NULL);})
args
)
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n+$num_exprs);
}
|subtemplate
{
if ( $subtemplate.nargs != $num_exprs ) {
    errMgr.compileTimeError(ErrorType.ANON_ARGUMENT_MISMATCH,
    templateToken, $subtemplate.start.token, $subtemplate.nargs, $num_exprs);
}
for (int i=1; i<=$num_exprs; i++) emit($subtemplate.start,Bytecode.INSTR_NULL);
emit2($subtemplate.start, Bytecode.INSTR_NEW,
    $subtemplate.name,
    $num_exprs);
}
/^((INCLUDE_IND expr
{
emit($INCLUDE_IND,Bytecode.INSTR_TOSTR);
for (int i=1; i<=$num_exprs; i++) emit($INCLUDE_IND,Bytecode.INSTR_NULL);
}
args
{
emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n+$num_exprs);
}
)
;

includeExpr
:^((EXEC_FUNC ID expr?)|func($ID);)
[^((INCLUDE ID args)
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ($args.namedArgs) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n);
}

^(INCLUDESUPER ID args)
{
if ($args.passThru) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ($args.namedArgs) emit1($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE_SUPER, Bytecode.INSTR_SUPER_NEW, $ID.text, $args.n);
}

^(INCLUDE_REGION ID)
CompiledST impl = Compiler.defineBlankRegion(outermostImpl, $ID.token);
//impl.dump();
emit2($INCLUDE_REGION, Bytecode.INSTR_NEW, impl.name, 0);
}

^(INCLUDE_SUPER_REGION ID)
{
String mangled = STGroup.getMangledRegionName(outermostImpl.name, $ID.text);
emit2($INCLUDE_SUPER_REGION, Bytecode.INSTR_SUPER_NEW, mangled, 0);
}

primary
:
ID{refAttr($ID);]

[String]{emit1($STRING, Bytecode.INSTR_LOAD_STR, Misc.strip($STRING.text, 1));}
[true]{emit($TRUE, Bytecode.INSTR_TRUE);}
[false]{emit($FALSE, Bytecode.INSTR_FALSE);}
[subtemplate]{emit2($start, Bytecode.INSTR_NEW, $subtemplate.name, 0);}

list
^(INCLUDE_IND
expr {emit($INCLUDE_IND, Bytecode.INSTR_TOSTR);}
args {emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n);}
)
^(TO_STR expr){emit($TO_STR, Bytecode.INSTR_TOSTR);}

arg : expr ;

args returns [int n=0, boolean namedArgs=false, boolean passThru]
:
arg {n++;} +
| (emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;)

^(eq='=' ID expr)
{emit($eq, Bytecode.INSTR_STORE_ARG, defineString($ID.text));}

(+ {$n++; emit1($seq, Bytecode.INSTR_STORE_ARG, defineString($ID.text));})

( ... { $passThru=true; })?
| ’...’ { $passThru=true; emit($args.start, Bytecode.INSTR_ARGS); $namedArgs=true;}


list: {emit($start, Bytecode.INSTR_LIST);}
^(*LIST (listElement {emit($listElement.start, Bytecode.INSTR_ADD);})* )

listElement : expr | NULL {emit($NULL, Bytecode.INSTR_NULL);} ;

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/stringtemplate/v4/compiler/CodeGenerator.g
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/stringtemplate/language/StringRef.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/stringtemplate/AttributeRenderer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
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New style messages. This file only contains the messages in English, but no information about which file, line, or column it occurred in.
The location and message ids are taken out of the formats directory.
Kay Roepke

GROUP en_US;

// TOOL ERRORS
// file errors
CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= «
cannot write file <arg>: <exception>
<stackTrace; separator="\n">»

CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"

CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"

ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= «
problem reading token vocabulary file <arg>: <exception>
<stackTrace; separator="\n">»

DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"
OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"

CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>
reason: <exception><endif>"
CIRCULAR_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid build order."

INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= «
internal error: <arg> <arg2><if(exception)>
<exception><endif>
<stackTrace; separator="\n">»

INTERNAL_WARNING(arg) ::= "internal warning: <arg>"

ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= «
problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">»

TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::= 
"problems parsing token vocabulary file <arg> on line <arg2>"

CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::= 
"cannot write DFA DOT file <arg>: <exception>"

BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::= 
"bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::=
"file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::= 
"file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::= 
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::= 
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::= 
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::= 
"cannot create target <arg> code generator: <exception>"
STRING_TEMPLATE_ERROR(arg,exception,stackTrace) ::= 
"template error: <arg>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::= 
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::= 
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::= 
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::= 
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::= 
"parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::= 
"cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::= 
"no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::= 
"reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::= 
"literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::= 
"literals are illegal in lexer tokens{} section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::=
"reference to attribute outside of a rule: <arg2><if(arg2>).<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg, arg2) ::= 
  "unknown attribute for <arg>: <arg2>"
UNKNOWN_RULE_ATTRIBUTE(arg, arg2) ::= 
  "unknown attribute for rule <arg>: <arg2>"
UNKNOWN_SIMPLE_ATTRIBUTE(arg, arg2) ::= 
  "attribute is not a token, parameter, or return value: <arg>"
ISOLATED_RULE_SCOPE(arg) ::= 
  "missing attribute access on rule scope: <arg>"
INVALID_RULE_PARAMETER_REF(arg, arg2) ::= 
  "cannot access rule <arg>’s parameter: <arg2>"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg, arg2) ::= 
  "cannot access rule <arg>’s dynamically-scoped attribute: <arg2>"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::= 
  "symbol <arg> conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg, arg2, arg3) ::= 
  "cannot write to read only attribute: $<arg><if(arg2>).<arg2><endif>"
LABEL_CONFLICTS_WITH_RULE(arg) ::= 
  "label <arg> conflicts with rule with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::= 
  "label <arg> conflicts with token with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg, arg2) ::= 
  "label <arg> conflicts with rule <arg2>’s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= 
  "label <arg> conflicts with rule <arg2>’s return value or parameter with same name"
ATTRIBUTE_CONFLICTS_WITH_RULE(arg, arg2) ::= 
  "rule <arg2>’s dynamically-scoped attribute <arg> conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= 
  "rule <arg2>’s dynamically-scoped attribute <arg> conflicts with <arg2>’s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg, arg2) ::= 
  "label <arg> type mismatch with previous definition: <arg2>"
ARG_RETVAL_CONFLICT(arg, arg2) ::= 
  "rule <arg2>’s argument <arg> conflicts a return value with same name"
NONUNIQUE_REF(arg) ::= 
  "<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::= 
  "illegal forward reference: <arg>"
MISSING_RULE_ARGS(arg) ::= 
  "missing parameter(s) on rule reference: <arg>"
RULE_HAS_NO_ARGS(arg) ::= 
  "rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::= 
  "token reference <arg> may not have parameters"
ILLEGAL_OPTION(arg) ::= 
  "illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::= 
  "rule ’+=’ list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::=  
"reference to undefined token in rewrite rule: <arg>"

REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::=  
"reference to rewrite element <arg> without reference on left of ->"

UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::=  
"reference to undefined label in rewrite rule: $<arg>"

NO_GRAMMAR_START_RULE (arg) ::=  
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"

EMPTY_COMPLEMENT(arg) ::= <<  
<if(arg)>  
set complement ~<arg> is empty  
<else>  
set complement is empty  
<endif>  
>>

UNKNOWN_DYNAMIC_SCOPE(arg) ::=  
"unknown dynamic scope: <arg>"

UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg,arg2) ::=  
"unknown dynamically-scoped attribute for scope <arg>: <arg2>"

RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::=  
"reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"

ISOLATED_RULE_ATTRIBUTE(arg) ::=  
"reference to locally-defined rule scope attribute without rule name: <arg>"

INVALID_ACTION_SCOPE(arg,arg2) ::=  
"unknown or invalid action scope for <arg2> grammar: <arg>"

ACTION_REDEFINITION(arg) ::=  
"redefinition of <arg> action"

DOUBLE_QUOTES_ILLEGAL(arg) ::=  
"string literals must use single quotes (such as \begin{}): <arg>"

INVALID_TEMPLATE_ACTION(arg) ::=  
"invalid StringTemplate % shorthand syntax: '<arg>'"

MISSING_ATTRIBUTE_NAME() ::=  
"missing attribute name on $ reference"

ARG_INIT_VALUES_ILLEGAL(arg) ::=  
"rule parameters may not have init values: <arg>"

REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::=  
"<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"

AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::=  
"AST operator with non-AST output option: <arg>"

NO_RULES(arg) ::= "grammar file <arg> has no rules"

MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::=  
"tree grammar <arg> has no ASTLabelType option"

REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::=  
"with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be correct"

RULE_INVALID_SET(arg) ::=  
"Cannot complement rule <arg>; not a simple set or element"
HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::= "alts with rewrites can't use heterogeneous types left of ->"

NO_SUCH_GRAMMAR_SCOPE(arg, arg2) ::= "reference to undefined grammar in rule reference: <arg>.<arg2>"

NO_SUCH_RULE_IN_SCOPE(arg, arg2) ::= "rule <arg2> is not defined in grammar <arg>"

TOKEN_ALIAS_CONFLICT(arg, arg2) ::= "cannot alias <arg>; string already assigned to <arg2>"

TOKEN_ALIAS_REASSIGNMENT(arg, arg2) ::= "cannot alias <arg>; token name already assigned to <arg2>"

TOKEN_VOCAB_IN_DELEGATE(arg, arg2) ::= "tokenVocab option ignored in imported grammar <arg>"

INVALID_IMPORT(arg, arg2) ::= "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar <arg2.name>"

IMPORTED_TOKENS_RULE_EMPTY(arg, arg2) ::= "no lexer rules contributed to <arg> from imported grammar <arg2>"

IMPORT_NAME_CLASH(arg, arg2) ::= "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate <arg2.recognizerName>; import ignored"

AST_OP_IN_ALT_WITH_REWRITE(arg, arg2) ::= "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"

WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"

CONFLICTING_OPTION_IN_TREE_FILTER(arg, arg2) ::= "option <arg>=<arg2> conflicts with tree grammar filter mode"

ILLEGAL_OPTION_VALUE(arg, arg2) ::= "value '<arg2>' invalid for option <arg>"

ALL_OPS_NEED_SAME_ASSOC(arg) ::= "all operators of alt <alt> of left-recursive rule must have same associativity"

RANGE_OP_ILLEGAL(arg) ::= "the .. range operator isn't allowed in parser rules"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input, conflictingAlts, paths, disabled, hasPredicateBlockedByAction) ::= <<
  <if(paths)>
  Decision can match input such as "<input>" using multiple alternatives:
  <paths:{ it | alt <it.alt> via NFA path <it.states; separator="","><\n}\n  <else>
  Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator="", "">
  <endif>
  <if(disabled)><\n  As a result, alternative(s) <disabled; separator="","> were disabled for that input.<endif><if(hasPredicateBlockedByAction)><\n  Semantic predicates were present but were hidden by actions.<endif>
>>

DANGLING_STATE(danglingAlts, input) ::= <<
  the decision cannot distinguish between alternative(s) <danglingAlts; separator="","> for input such as "<input>"
>>
UNREACHABLE_ALTS(alts) ::= <<
The following alternatives can never be matched: <alts; separator="",">
>>

INSUFFICIENT_PREDICATES(upon,altToLocations,hasPredicateBlockedByAction) ::= <<
Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations,keys:[alt|alt <alt>:<altToLocations.(alt):{loc line <loc.line>:<loc.column> at <loc.text>}; separator="",">}
"<if(hasPredicateBlockedByAction)>Semantic predicates were present but were hidden by actions.<endif>
>>

DUPLICATE_SET_ENTRY(arg) ::=
duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= <<
ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1. Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.
>>

RECURSION_OVERLOW(alt,input,targetRules,callSiteStates) ::= <<
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>};separator="",}>}; separator="" and "">
>>

LEFT_RECURSION(targetRules,alt,callSiteStates) ::= <<
Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from
<c:{s|<s.enclosingRule>};separator="",}>}; separator="" and "">
>>

UNREACHABLE_TOKENS(tokens) ::= <<
The following token definitions can never be matched because prior tokens match the same input: <tokens;
separator="",">
>>

TOKEN_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::= <<
<<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:
<brackets:{ it | alt <it.alt> via NFA path <it.states; separator=""}>}<\n>
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator="",>
<endif>
<if(disabled)>As a result, token(s) <disabled; separator="",> were disabled for that
input<endif><if(hasPredicateBlockedByAction)>Semantic predicates were present but were hidden by actions.<endif>
>>
LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
The following sets of rules are mutually left-recursive <listOfCycles>{c | <c>{r | <r.name>}; separator=", "}];
separator=" and ">
>>

NONREGULAR_DECISION(ruleName,alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts;
separator=", ">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
>>

/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/tool/templates/messages/languages/en.stg
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*/

group junit;
classHeader(header,junitFileName,hasTreeAdaptor,treeAdaptorPath, 
hasPackage,packagePath,lexerPath,parserPath,treeParserPath,isTreeGrammar) ::= <<
<header>

import org.antlr.gunit.gwtUnitBaseTest;

public class <junitFileName> extends gUnitBaseTest {

public void setUp() {
<if(hasTreeAdaptor)><	><	>this.treeAdaptorPath = "<treeAdaptorPath>";<endif>
<if(hasPackage)><	><	>this.packagePath = "<packagePath>";<endif>
this.lexerPath = "<lexerPath>";
this.parserPath = "<parserPath>";
<if(isTreeGrammar)><	><	>this.treeParserPath = "<treeParserPath>";<endif>
}

}>

>>

testTreeRuleMethod(methodName,testRuleName,testRuleName,test,inputEscaped,expecting) ::= <<
public void <methodName>() throws Exception {
// gunit test on line <test.line>
Object retval = execTreeParser(<testTreeRuleName>, <testRuleName>, "<test.inputEscaped>", <test.isFile>);
Object actual = examineExecResult(<tokenType>, retval);
Object expecting = <expecting>;
assertEquals("testing rule "+<testTreeRuleName>, expecting, actual);
}

}>

>>

testTreeRuleMethod2(methodName,testRuleName,testRuleName,test,inputEscaped,expecting) ::= <<
public void <methodName>() throws Exception {
// gunit test on line <test.line>
<returnType> retval = (<returnType>)execTreeParser(<testTreeRuleName>, <testRuleName>, "<test.inputEscaped>", <test.isFile>);
assertTrue("testing rule "+<testTreeRuleName>, <expecting>);
}

}>

>>

testRuleMethod(isLexicalRule,methodName,testRuleName,test,inputEscaped,expecting) ::= <<
public void <methodName>() throws Exception {
// gunit test on line <test.line>
Object retval = <if(isLexicalRule)>execLexer<else>execParser<endif>(<testRuleName>, <test.line>, "<test.inputEscaped>", <test.isFile>);
Object actual = examineExecResult(<tokenType>, retval);
Object expecting = <expecting>;
assertEquals("testing rule "+<testRuleName>, expecting, actual);
}

}>

>>
testRuleMethod2(methodName,testRuleName,test,returnType,expecting) ::= <\n> public void <methodName>() throws Exception {
    // junit test on line <test.line>
    <returnType> retval = (<returnType>)execParser(<testRuleName>, <test.line>, "<test.inputEscaped>", <test.isFile>);

    assertTrue("testing rule "+<testRuleName>, <expecting>);
} <\n>
apiVersion() ::= "1"

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True":"true",
    "False":"false",
    "true":"true",
    "false":"false",
    default:"false"
]

/** The overall file structure of a recognizer; stores methods for rules *
* and cyclic DFAs plus support code.
* /
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= <<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<!-- imports
import sys
from antlr3 import *
<if(TREE_PARSER)>
from antlr3.tree import *
<endif>
from antlr3.compat import set, frozenset
@end-->

<actions.(actionScope).header>

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator="\n">
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)

    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)

    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)

    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)

if __name__ == '__main__':
    main(sys.argv)
/** A override of Lexer.nextToken() that backtracks over mTokens() looking 
* for matches. No error can be generated upon error; just rewind, consume 
* a token and then try again. backtracking needs to be set as well. 
* Make rule memoization happen only at levels above 1 as we start mTokens 
* at backtracking==1. 
*/
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return self.makeEOFToken()
        self._state.token = None 
        self._state.channel = DEFAULT_CHANNEL
        self._state.tokenStartCharIndex = self.input.index()
self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
self._state.tokenStartLine = self.input.line
self._state._text = None
try:
    m = self.input.mark()
    try:
        # means we won't throw slow exception
        self._state.backtracking = 1
        try:
            self.mTokens()
        finally:
            self._state.backtracking = 0
    except BacktrackingFailed:
        # mTokens backtracks with synpred at backtracking==2
        # and we set the synpredgate to allow actions at level 1.
        self.input.rewind(m)
        self.input.consume() # advance one char and try again
else:
    self.emit()
    return self._state.token
except RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super(<grammar.recognizerName>, self).memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super(<grammar.recognizerName>, self).alreadyParsedRule(input, ruleIndex)
    return False

>>> actionGate() ::= "self._state.backtracking == 0"
filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, labelType, members,
    rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
    # token names
    tokenNames = [
        "\EOR", "\DOWN", "\UP",
        <tokenNames; wrap, separator=" ">
    ]
    <\n>
    <else>
    from <grammar.composite.rootGrammar.recognizerName> import tokenNames
    <\n>
    <endif>
    <scopes: [if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif> ]>

    <grammar.directDelegates:
        [g|from <g.recognizerName> import <g.recognizerName>]; separator="\n">

    <rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)> }>

class <grammar.recognizerName>({@superClassName}<superClass><@end>):
    grammarFileName = "<fileName">
    api_version = <apiVersion()>  
    tokenNames = tokenNames

    def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input, state=None, *args, **kwargs):
        if state is None:
            state = RecognizerSharedState()

        <@args()>
        super(<grammar.recognizerName>, self).__init__(input, *args, **kwargs)
        <\n>
        <if(memoize)>
        <if(grammar.grammarIsRoot)>
            self._state.ruleMemo = {} 
        <\n>
        <endif>
        <endif>

        <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

    <scopes: [it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif> ]>
    <rules:{it | <ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)> }>

    <grammar.delegators:
        [g|self.<g:delegateName()> = <g:delegateName()>]; separator="\n">
    <grammar.directDelegates:
{g|self.<g:delegateName()> = <g.recognizerName>()(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input, state}); separator="\n"}

<grammar.directDelegates:
  {g|<g:delegates:{h|self.<h:delegateName()> = self.<g:delegateName>().<h:delegateName>()}; separator="\n"}>
</grammar.directDelegates>

<last(grammar.delegators):
  {g|self.gParent = self.<g:delegateName()>}; separator="\n">

self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", "]>
</@init><@end>

</@members><@end>

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bits: {it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([{it | <it}>; separator="","})<\n>}>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
  <if(ruleDescriptor.hasReturnValue)>return self.<ruleDescriptor.grammar:delegateName().<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)
  ><ruleDescriptor.parameterScope.attributes:{a|<a.name}>}; separator=" ", "><</endif>)
<endif>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="Object", superClass="Parser", labelType="Token",
members={<actions.parser.members>},
init={<actions.parser.init}>)
  ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, "TokenStream", superClass,
  labelType, members, "Token",
  ...>
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, filterMode, labelType={ASTLabelType},
    superClass={if(filterMode) if(buildAST) TreeRewriter else TreeFilter endif else TreeParser endif},
    members={actions.treeparser.members},
    init={actions.treeparser.init}
) ::= <<
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, "TreeNodeStream", superClass,
    labelType, members, "Node",
    filterMode, init, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
    # $ANTLR start "<ruleName>"
    def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope()>):
      <ruleLabelDefs()>
      <if(trace)>
        self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
        try:
          <block>
        finally:
          self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
      <else>
        <block>
      <endif>
    # $ANTLR end "<ruleName>"
>>
synpred(name) ::= <<
    def <name>(self):
    >>
self._state.backtracking += 1

<@start()>
start = self.input.mark()
try:
    self.<name>_fragment()
except BacktrackingFailed:
    success = False
else:
    success = True
self.input.rewind(start)
<@stop()>

self._state.backtracking -= 1
return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if self._state.backtracking > 0:
    raise BacktrackingFailed
<endif>
>>

/** How to generate code for a rule.  This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start "<ruleName>"
# <fileName>:<description>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
    <if>(trace)
        self.traceIn("<ruleName>", <ruleDescriptor.index>)
    </endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    <@body><ruleBody()><@end>
    <@postamble()>
    return <ruleReturnValue()>

    # $ANTLR end "<ruleName>"
<else>
    finally:
    pass

<endif>
<endif>
finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
<endif>

<memoize()>
    <ruleScopeCleanUp()>
    <finally>
    pass
>>

catch(decl, action) ::= <<
except <e.decl>:
    <e.action>
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
    retval = self.<ruleDescriptor.name>_return()
    retval.start = self.input.LT(1)
<elseif(ruleDescriptor.returnScope)>
    <ruleDescriptor.returnScope.attributes:{ a |
        <a.name> = <if(a.initValue)><a.initValue><else>None<endif>
    }>
<endif>
<if(memoize)>
    <ruleDescriptor.name>_StartIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
    <ruleDescriptor.useScopes:{it | self.<it>_stack.append(<it>_scope())}; separator="\n">
    <ruleDescriptor.ruleScope:{it | self.<it.name>_stack.append(<it.name>_scope())}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
    <ruleDescriptor.useScopes:{it | self.<it>_stack.pop()}; separator="\n">
    <ruleDescriptor.ruleScope:{it | self.<it.name>_stack.pop()}; separator="\n">
>>

ruleLabelDefs() ::= <<
    <ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels, ruleDescriptor.wildcardTreeListLabels] :
[: \{ it | <it.label.text> = None \}; separator="\n"
>
<\[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
[: \{ it | list_<it.label.text> = None \}; separator="\n"
>
<\ruleDescriptor.ruleListLabelsalonative="\n">

lexerRuleLabelDefs() ::= <<
<\ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
[: \{ it | <it.label.text> = None \}; separator="\n"
>
<\ruleDescriptor.charLabelsalonative="\n">
<\[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
[: \{ it | list_<it.label.text> = None \}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)\n
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
/** How to generate a rule in the lexer; naked blocks are used for fragment rules. *
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
  if(trace):
    self.traceIn("<ruleName>", <ruleDescriptor.index>)
  <endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  if(memoize):
    if(backtracking):
      success = False
  try:
    if(nakedBlock):
      <ruleMemoization(name=ruleName)>
      lexerRuleLabelDefs()  
      <ruleDescriptor.actions.init>
      <block>
    else:
      _type = <ruleName>
      _channel = DEFAULT_CHANNEL
      <ruleMemoization(name=ruleName)>
      lexerRuleLabelDefs()  
      <ruleDescriptor.actions.init>
      <block>
      <ruleCleanUp()>
      self._state.type = _type
      self._state.channel = _channel
      <(ruleDescriptor.actions.after):execAction()>
  <endif>
  if(memoize):
    if(backtracking):
      success = True
  <endif>
  <endif>
finally:

self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
** How to generate code for the implicitly-defined lexer grammar rule * that chooses between lexer rules. */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block><\n
>>> // S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    @@body><blockBody()><@end
    >>

blockBody() ::= <<
    @@predecision()
    @@decision><decision><@end
    @@postdecision()
    @@prebranch() 
    <alts:{a | <altSwitchCase(i, a)>}; separator="\nel"> 
    @@postbranch() 
    >>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    @@predecision() 
    @@decision><decision><@end

```
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
alts<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
alts<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
cnt<decisionNumber> = 0
<decls>
<@preloop()>
<@looby>
<positiveClosureBlockLoop()>
<@end>
<@postloop()>
>>

positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
alt<decisionNumber> = <maxAlt>
<@predecision()>
<@decisionBody><decision><@end>
<@postdecision()>
alts:{a | <altSwitchCase(i, a)>}; separator="\nel">
else:
    if cnt<decisionNumber> >= 1:
        break #loop<decisionNumber>

<ruleBacktrackFailure()>
    eee = EarlyExitException(<decisionNumber>, self.input)
<@earlyExitException()>>
raise eee

cnt<decisionNumber> += 1
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
<decls>
>@preloop()>
<@loopBody>
<closureBlockLoop()>
@@end>
<@postloop()>
>>

closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    @@predecision()>
    @@decisionBody><decision><@end>
    @@postdecision()>
    <alts:{a | <altSwitchCase(i, a)>}; separator="\nel">else:
        break #loop<decisionNumber>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative * number. A DFA predicts the alternative and then a simple switch * does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
    if alt<decisionNumber> == <altNum>:
        @@prealt()>
        <alt>
    >>
/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= «<<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= «<<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= «<<
<if(label)> <label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= «<<
<tokenRef(token,label,elementIndex,terminalOptions)> <listLabel(label, label>)
>>

listLabel(label, elem) ::= «<<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= «<<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
   <if(label)>
   <label> = self.input.LA(1)<
   <endif>
   self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
   <if(label)>
   <label> = self.input.LT(1)<
   <endif>
   if <s>:
      self.input.consume()
      <postmatchCode>
      <if(!LEXER)>
         self._state.errorRecovery = False<
      <endif>
   else:
      <ruleBacktrackFailure()>
      mse = MismatchedSetException(None, self.input)
      <@MismatchedSetException()>
      <if(LEXER)>
         self.recover(mse)
         raise mse
      <else>
         raise mse
      <! use following code to make it recover inline; remove throw mse;
      self.recoverFromMismatchedSet(
         self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
      )
      !>
      <endif>
   <un>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
   <matchSet(...)>  
   <listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  <label>Start = self.getCharIndex()
  self.match(<string>)
  <label>StartLine<elementIndex> = self.getLine()
  <label>StartCharPos<elementIndex> = self.getCharPositionInLine()
  <label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
                   start=<label>Start, stop=self.getCharIndex()-1)
  <label>.setLine(<label>StartLine<elementIndex>)
  <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
  <else>
  self.match(<string>)
  <endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  <if(label)>
  <label> = self.input.LT(1)<
  <endif>
  self.matchAny(self.input)
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <wildcard(...)>
  <listLabel(label,label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = self.input.LA(1)<
  <endif>
  self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(label, elementIndex)>
  <listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  self._state.following.append(self.FOLLOW_<rule.name><elementIndex>)}
>>
<if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",
")<un>
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>

/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=",
>)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
   input=self.input,
   type=INVALID_TOKEN_TYPE,
   channel=DEFAULT_CHANNEL,
   start=<label>Start<elementIndex>.,
   stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=",
>)
<label>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL, start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.match(EOF)
</endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>
recRuleArg() ::= ",p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= ",root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name) ::= "$<name> = $<src>.<name>"

/** match ^<root children> in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is *
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(pred, description)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")
>>

// F i x e d  D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)


<edges; separator="\n"/>
else:
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
  <else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("description", <decisionNumber>, <stateNumber>, self.input)<
  </@noViableAltException()>
    raise nvae
  <endif>
</if(eotPredictsAlt)>

/**
 * Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\n"/>

/**
 * A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\n"/>
<if(eotPredictsAlt)>
  <if(!edges)>
    alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
  <else>
    else:
      alt<decisionNumber> = <eotPredictsAlt>
  <endif>
<endif>

/**
 * An accept state indicates a unique alternative has been predicted *
 */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>

/**
 * A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
  <targetState>
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<

FIXME: this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
!
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
  <else>
    ruleBacktrackFailure()
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
    @noViableAltException()  
    raise nvae<\n>
  <endif>

>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<

LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<

LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
@if(eotPredictsAlt)
  alt<decisionNumber> = <eotPredictsAlt>
@else:
  alt<decisionNumber> = <eotPredictsAlt>
@endif
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{it | LA<decisionNumber> == <it>}; separator=" or ">

/*

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*/
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
    u"<dfa.javaCompressedEOT; wrap="\n    u">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
    u"<dfa.javaCompressedEOF; wrap="\n    u">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
    u"<dfa.javaCompressedMin; wrap="\n    u">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
    u"<dfa.javaCompressedMax; wrap="\n    u">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
    u"<dfa.javaCompressedAccept; wrap="\n    u">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(
    u"<dfa.javaCompressedSpecial; wrap="\n    u">"
)

DFA<dfa.decisionNumber>._transition = [
    <dfa.javaCompressedTransition: [s|DFA.unpack(u"<s; wrap="\"nu\"">")}; separator="\n">]
#
# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

<@errorMethod()>

<if(dfa.specialStateSTs)>
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_ magic is ok ;)
        # pylint: disable-msg=E0213

        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
        self_ = self_.recognizer

        _s = s

        <dfa.specialStateSTs: [state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
        <state> ]; separator="\nel"> if(self_.state.backtracking > 0):
            raise BacktrackingFailed

        nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
        self_.error(nvae)
        raise nvae
<endif>

>>

cyclicDFAInit(dfa) ::= <<
    self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
        self, <dfa.decisionNumber>,
        eot = self.DFA<dfa.decisionNumber>._eot,
        eof = self.DFA<dfa.decisionNumber>._eof,
        min = self.DFA<dfa.decisionNumber>._min,
        max = self.DFA<dfa.decisionNumber>._max,
        accept = self.DFA<dfa.decisionNumber>._accept,
        special = self.DFA<dfa.decisionNumber>._special,
        transition = self.DFA<dfa.decisionNumber>._transition
    )
>>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<<
    LA<decisionNumber>_<stateNumber> = input.LA(1)<
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    index<decisionNumber>_<stateNumber> = input.index()<
    input.rewind()<
    <endif>
    s = -1
    <edges; separator="\n"><!
    <if(semPredState)> <! return input cursor to state before we rewound !>
    input.seek(index<decisionNumber>_<stateNumber>)<
    <endif>
    if s >= 0:
        return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<<
    if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
        s = <targetStateNumber><
    >>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<<
    s = <targetStateNumber><
    >>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "((<left>) and (<right>))"
orPredicates(operands) ::= "(<operands; separator=" or ">
notPredicate(pred) ::= "not (<evalPredicate(pred, {})>"
evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "self.<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>._<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(<lower> \<= LA<decisionNumber>._<stateNumber> \<= <upper>)
%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \<= self.input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=" or ">"

// A T T R I B U T E S

globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>._scope(object):
  def __init__(self):
    <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>._stack = []
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>._scope(object):
  def __init__(self):
    <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>
ruleAttributeScopeStack(scope) ::= <<
@if(scope)
@if(scope.attributes)
self.<scope.name>_stack = []
@endif
@endif
>>

delegateName(d) ::= <<
@if(d.label)<d.label><else>g<d.name><endif
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= "<r.name>_return"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
def __init__(self):
    super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

@if(scope)<scope.attributes:{it | self.<it.decl> = None}; separator="\n"><endif
</@ruleReturnInit()>

</@ruleReturnMembers()>

@if(endif)
>>

parameterScope(scope) ::= <<
@if(scope)<scope.attributes:{it | it.decl} ; separator=" ">"<endif
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
%

/* not applying patch because of bug in action parser! */
(len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None][0]
<elif(index)>
((<index> \< len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None][0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None][0]
<endif>
<endif>
*/

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index)>
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers * to stack itself not top of stack. This is useful for predicates */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<endif>

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( (<scope> is not None) and [ <scope>.<attr.name> ] or [None])[0]
<else>
<scope>
<endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :( 

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
]** or [None][0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None][0]
<endif>
%
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None][0])"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0][0])"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0][0])"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0][0])"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0][0])"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None][0])"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0][0])"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
    pass

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<action>
<else>
if <actions.(actionScope).synpredgate>:
  pass
<action>
<endif>
<else>
#action start
<action>
#action end
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true_value() ::= "True"
false_value() ::= "False"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python/Python.stg
No license file was found, but licenses were detected in source scan.

/*
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/
/** Template overrides to add debugging to normal Java output;
If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[]
{
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator=", " >
};<\n>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}\.RuleLevel; } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}\.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}\.DecRuleLevel(); }
<ctorForDelegateGrammar()>

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public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
    ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return base.AlreadyParsedRule(input, ruleIndex);
}<
>

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
}<
>

protected virtual bool EvalPredicate(bool result, string predicate)
{
    dbg.SemanticPredicate(result, predicate);
    return result;
}<
>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
(actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
    
}</actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, int port,
RecognizerSharedState state )
: base( input, state )
{
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">;
    <parserCtorBody()>
    </finally()>
}<
>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
(actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
    
}</actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
ctorForDelegateGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:
  {g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
  <g:delegateName()> }> );}; separator="\n">
<parsersCtorBody()></p>
}@finally()>
} \n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg
)
}@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
@if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);
@end>
<grammar.directDelegates:
  {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
  this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">
<parsersCtorBody()></p>
}@finally()>
} \n>
>>

createListenerAndHandshake() ::= <<
@if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );\n</if>

DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>
@genericParser.superClassName() ::= "Debug<@super.superClassName()>>"

/**
 * Much of the following rules were merged into CSharp3.stg.
 */

@rule.preamble() ::= <<
if (RuleLevel == 0)
  DebugListener.Commence();
  IncRuleLevel();
>>
@rule.preamble() ::= <<
  //try
  //{
  //  dbg.EnterRule( GrammarFileName, "<ruleName>" );
  //  if ( RuleLevel == 0 )
  //  {
  //    dbg.Commence();
  //  }
  //  IncRuleLevel();
  //}
  //dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );
  //>>

@rule.postamble() ::= <<
  DecRuleLevel();
  if (RuleLevel == 0)
    DebugListener.Terminate();
>>
@rule.postamble() ::= <<
  //dbg.Location( <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine> );
  //}
  //finally
  //{
  //  dbg.ExitRule( GrammarFileName, "<ruleName>" );
  //  DecRuleLevel();
  //>}

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//if ( RuleLevel == 0 )
//{
//dbg.Terminate();
//}
//}<
>
//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{
//dbg.EnterSubRule( <decisionNumber> );<
>
//}>

//exitSubRule() ::= <<
//}
//finally
//{
//dbg.ExitSubRule( <decisionNumber> );
//}<
>

//enterDecision() ::= <<
//try
//{
//dbg.EnterDecision( <decisionNumber> );<
>
//}>

//exitDecision() ::= <<
//}
//finally
//{
//dbg.ExitDecision( <decisionNumber> );
//}<
>

//enterAlt(n) ::= "dbg.EnterAlt( <n> );"<
>
//@block.predecision() ::= "<enterSubRule()><enterDecision()>
//Region overrides that tell various constructs to add debugging triggers
//@block.predecision() ::= "<enterSubRule()><enterDecision()>
//@block.postdecision() ::= "<exitDecision()>
}
//@block.postbranch() ::= "<exitSubRule()>
"  
//@ruleBlock.predecision() ::= "<enterDecision()>
"  
//@ruleBlock.postdecision() ::= "<exitDecision()>
"  
//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>
"  
//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>
"  
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>
"  
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>
"  
//@positiveClosureBlock.predecision() ::= "<enterDecision()>
"  
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>
"  
//@positiveClosureBlock.earlyExitException() ::= 
"dbg.RecognitionException( eee<decisionNumber> );<
>"
//@closureBlock.preloop() ::= "<enterSubRule()>
"  
//@closureBlock.postloop() ::= "<exitSubRule()>
"  
//@closureBlock.predecision() ::= "<enterDecision()>
"  
//@closureBlock.postdecision() ::= "<exitDecision()>
"  
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
//@element.prematch() ::= 
"dbg.Location( <it.line>, <it.pos> );"
//@matchSet.mismatchedSetException() ::= 
"dbg.RecognitionException( mse );"
//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"
//@dfaDecision(decisionNumber.description) ::= <<
try
{
  isCyclicDecision = true;
  <super.dfaDecision(...)>
}
catch ( NoViableAltException nvae )
```csharp
@
cyclicDFA.errorMethod() ::= <<
public override void Error( NoViableAltException nvaes )
/>
((DebugParser)recognizer).dbg.RecognitionException( nvaes );
/>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/templates/CSharp3/Dbg.stg
No license file was found, but licenses were detected in source scan.

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```
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*/

group Delphi:

csharpTypeInitMap ::= [
  "int":"0",
  "uint":"0",
  "long":"0",
  "ulong":"0",
  "float":"0.0",
  "double":"0.0",
  "bool":"False",
  "byte":"0",
  "sbyte":"0",
  "short":"0",
  "ushort":"0",
  "char":"#0",
  "string":""
  default:"nil" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * TREE_PARSER (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 * tokens (HashMap<name: String, type: Integer>):
 * tokenNames:
 * rules:
 * cyclicDFAs:
 * bitsets:
 * buildTemplate (Boolean): should we generate a string template?
 * buildAST (Boolean): should we generate an AST?
 * rewriteMode (Boolean): are we rewriting nodes?
 * profile (Boolean):
 * backtracking (Boolean): backtracking mode?
 * synpreds (): syntactic predicates
 * memoize (Boolean): should we memoize?
 * numRules (Integer): number of rules
 * fileName (String): fully qualified name of original .g file
*/

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* ANTLRVersion (String): ANTLR version in Major.Minor.Build format
* generatedTimestamp (String): date/time when the file is generated
* trace (Boolean): should we trace input/output?
* scopes:
* superClass (String): name of base class, or empty string
* literals:
*/

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
   docComment, recognizer,
   name, tokens, tokenNames, rules, cyclicDFAs,
   bitsets, buildTemplate, buildAST, rewriteMode, profile,
   backtracking, synpreds, memoize, numRules,
   fileName, ANTLRVersion, generatedTimestamp, trace,
   scopes, superClass, literals) ::= <<
unit <name>;

{$HINTS OFF}

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<actions.(actionScope).header>

interface

<@imports>
uses<\n
@end>
<actions.(actionScope).usesInterface>
@if(TREE_PARSER)
   Antlr.Runtime.Tree,<\n
@endif
   Antlr.Runtime,
   Antlr.Runtime.Collections,
   Antlr.Runtime.Tools;

<docComment>
<recognizer>
>>

/** Generates source code for the lexer class
 * grammar (Grammar object)
 */
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;
```
T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>, 
I<grammar.recognizerName>)
strict private
FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
FException: ERecognitionException;
procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>
public
const
<tokens:{<it.name> = <it.type>;}; separator="\n"> 
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> }>
strict private 
<actions.(actionScope).memberDeclarations>
public
// delegates 
<grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName}>}}; separator="\n"> 
public
// delegators 
<grammar.delegators: {g|<g:delegateName()>: Pointer; {<g.recognizerName}>}}
<last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName}>}}>
protected
{ IBaseRecognizer }
function GetGrammarFileName: String; override;
<if(filterMode)>
function AlreadyParsedRule(const Input: IIntStream;
const RuleIndex: Integer): Boolean; override;
procedure Memoize(const Input: IIntStream; const RuleIndex,
RuleStartIndex: Integer); override;
protected
{ ILexer }
function NextToken: IToken; override;
<endif>
protected
{ ILexer }
procedure DoTokens; override;
public
constructor Create; overload;
constructor Create(const AInput: ICharStream<grammar.delegators:{g|; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName}>}}>); overload;
constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g|;
const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName}>}}>); overload;

<rules: {r | <if(!r.ruleDescriptor.isSynPred)<lexerRuleDeclaration(r)><endif> }>
<synpreds:{p | <lexerSynpredDeclaration(p)>}; separator="\n"> end;
implementation

uses
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n"> <grammar.delegators: {g|<g.recognizerName>,}; separator="\n"> <actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create;
begin
  InitializeCyclicDFAs;
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName> }}>{g.recognizerName}>);
begin
  Create(AInput, nil<grammar.delegators:{g|, A<g:delegateName()>}>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName> }}>{g.recognizerName}>);
begin
  inherited Create(AInput, AState);
  InitializeCyclicDFAs; { TODO: Necessary in Delphi??? Not removed yet. }
  <if(grammar.grammarIsRoot)>
  <if(memoize)>
  State.RuleMemoCount := <numRules>+1;\n  </if>
  </if>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>,'
end;

<grammar.directDelegates:
{g|<g:delegateName()> := T<grammar.recognizerName>.Create(AInput, State<trunc(g.delegators):{p|,
<p:delegateName()> }, Self);}; separator="\n"> <grammar.delegators:
{g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n"> <last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}> <actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := ' <fileName> ';
end;
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
  <cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> :=
                 TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>);}; separator="\n">
  <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
                   DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
end.>>

lexerRuleDeclaration(rule) ::= <<
procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);<
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
  M: Integer;
begin
  while (True) do
  begin
    if (Input.LA(1) = Integer(cscEOF)) then
      Exit(TToken.EOF_TOKEN);
  end;
  try
    M := Input.Mark();
    State.Backtracking := 1; <! means we won't throw slow exception !>
  end.
end.>>
State.Failed := False;
mTokens();
State.Backtracking := 0;
<!
mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1.
!>
if (State.Failed) then
begin
  Input.Rewind(M);
  Input.Consume; <! // advance one char and try again !>
end
else
begin
  Emit;
  Exit(State.Token);
end;
except
  on RE: ERecognitionException do
begin
  // shouldn't happen in backtracking mode, but...
  ReportError(RE);
  Recover(RE);
end;
end;
end;
end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
  const RuleIndex: Integer): Boolean;
begin
if (State.Backtracking > 1) then
  Result := inherited AlreadyParsedRule(Input, RuleIndex)
else
  Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex,
  RuleStartIndex: Integer);
begin
if (State.Backtracking > 1) then
  inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

filteringActionGate():= "(State.Backtracking = 1)'
/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::=

   type
   <rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>}>;
   I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
   <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>}>;
   end;

   T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
   I<grammar.recognizerName>)
   <if(grammar.grammarIsRoot)>
   public
   const
   TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = ( 
      '\<invalid>', 
      '\<EOR>', 
      '\<DOWN>', 
      '\<UP>', 
      <tokenNames; separator="\n">);
   </end>
   public
   const
   <tokens:{<it.name> = <it.type>;}; separator="\n">
   public
   // delegates
   <grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName>}}}; separator="\n">
   public
   // delegators
   <grammar.delegates: {g|<g:delegateName()>: Pointer; {<g.recognizerName>}}}; separator="\n">
   <last(grammar.delegates):{g|gParent: Pointer; {<g.recognizerName>}}>
   
   <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}}
   <@members>
   <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
   public
   constructor Create(const AInput: <inputStreamType><grammar.delegates:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}}>); overload;
   constructor Create(const AInput: <inputStreamType>; const AState:
   IRecognizerSharedState<grammar.delegates:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}}>); overload;
   <@end>
   protected
   { IBaseRecognizer }
   function GetTokenNames: TStringArray; override;
   function GetGrammarFileName: String; override;
   strict private
<actions.(actionScope).memberDeclarations>
<rules: [r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>]>

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules: [ruleDescriptor | <delegatedRuleDeclaration(ruleDescriptor)>]>

<synpreds: [p | <synpredDeclaration(p)>]; separator="\n">
<cyclicDFAs:cyclicDFADeclaration()>
strict private
FException: ERecognitionException;
FLA: array [0..<grammar.numberOfDecisions], 0..255] of Integer;
FCnt: array [0..<grammar.numberOfDecisions] of Byte;
procedure InitializeCyclicDFAs;
@if(bitsets)
public
class var
  <bitsets:setDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
class procedure InitializeBitsets; static; <
@endf>
end;

implementation

uses
<grammar.delegates: [g<g.recognizerName>,]; separator="\n">
<grammar.delegators: [g<g.recognizerName>,]; separator="\n">
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

[ T<grammar.recognizerName> ]
constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType><grammar.delegators:{g| const A<g:delegateName()> : IBaseRecognizer {<g.recognizerName> } } });
begin
Create(AInput, TRecognizerSharedState.Create<grammar.delegators:{g|, A<g:delegateName()>}>);
end;
constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>; const AState: IRecognizerSharedState<grammar.delegators:{g| const A<g:delegateName()> : IBaseRecognizer {<g.recognizerName> } } >);
begin
inherited Create(AInput, AState);
@membersConstructor>
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
  <cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
    <if(dfa.specialStateSTs)>
      FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
      DFA<dfa.decisionNumber>_SpecialStateTransition;
    <endif>
  </cyclicDFAs:
end;

class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
  <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
@end

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
  I: Integer;
begin
  SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
  for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
    Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>'; 
end;

@membersImplementation
@end

<@membersImplementation>
@end

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
  I: Integer;
begin
  SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
  for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
    Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>'; 
end;

@membersImplementation
@end
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```c
< cyclicDFAs: cyclicDFA() >  <! dump tables for all DFA !>
< if( bitsets ) >
  initialization
  T< grammar.recognizerName >.InitializeBitsets;
< endif >
end.>>

deleagtedRuleDeclaration(ruleDescriptor) ::= <<
< if( ruleDescriptor.hasMultipleReturnValues ) >
  function < ruleDescriptor.name >(< ruleDescriptor.parameterScope:parameterScope(scope=it) >):
    I< returnType() >;
< else >
  < if( ruleDescriptor.hasSingleReturnValue ) >
    function < ruleDescriptor.name >(< ruleDescriptor.parameterScope:parameterScope(scope=it) >):
      < returnType() >;
  < else >
    procedure < ruleDescriptor.name >(< ruleDescriptor.parameterScope:parameterScope(scope=it) >);
  < endif >
< endif >
>>

deleagtedRuleImplementation(ruleDescriptor) ::= <<
< if( ruleDescriptor.hasMultipleReturnValues ) >
  function T< grammar.recognizerName >.< ruleDescriptor.name >(< ruleDescriptor.parameterScope:parameterScope(scope=it) >):
    I< returnType() >;
< else >
  < if( ruleDescriptor.hasSingleReturnValue ) >
    function T< grammar.recognizerName >.< ruleDescriptor.name >(< ruleDescriptor.parameterScope:parameterScope(scope=it) >):
      < returnType() >;
  < else >
    procedure T< grammar.recognizerName >.< ruleDescriptor.name >(< ruleDescriptor.parameterScope:parameterScope(scope=it) >);
  < endif >
< endif >
begin
  < if( ruleDescriptor.hasReturnValue ) > Result := <<
    T< ruleDescriptor.grammar.recognizerName >.< ruleDescriptor.grammar:delegateName() >.Implementor.< ruleDescriptor.name >(< ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=" ", ");
  < endif >
end;
>>

parserCtorBody() ::= <<
  InitializeCyclicDFAs;
  < if( memoize ) >
```
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;

<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
  * stream is a different type.
  */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, ASTLabelType="object", superClass="TreeParser", members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
  * rules created for syntactic predicates. As they never have return values
  * nor parameters etc..., just give simplest possible method. Don't do
  * any of the normal memoization stuff in here either; it's a waste.
  * As predicates cannot be inlined into the invoking rule, they need to
  * be in a rule by themselves.
  */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  procedure
  T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
  var
  Alt: array [0..<grammar.numberOfDecisions>] of Integer;
  <ruleLabelDefVars()>
  begin
  <ruleLabelDefs()>
  <if(trace)>
  TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
  try
  <block>
  finally
  TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
  end;
  <else>
  <block>
<endif>
end;
// $ANTLR end "<ruleName>"
>>

synpredDecs(name) ::= <<
SynPredPointer <name>;<
>>

synpred(name) ::= <<

function T<grammar.recognizerName>.<name>: Boolean;
var
  Start: Integer;
  Success: Boolean;
begin
  State.Backtracking := State.Backtracking + 1;
  @@start()
  Start := Input.Mark;
  try
    <name>_fragment(); // can never throw exception
  except
    on RE: ERecognitionException do
      WriteLn('Impossible: ' + RE.ToString);
  end;
  Success := not State.Failed;
  Input.Rewind(Start);
  @@stop()
  State.Backtracking := State.Backtracking - 1;
  State.Failed := False;
  Result := Success;
end;<
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

lexerSynpredDeclaration(name) ::= <<
  function <name>: Boolean;
  procedure <name>_fragment;
>>

synpredDeclaration(name) ::= <<
  function <name>: Boolean;
  procedure <name>_fragment;
>>
ruleMemoization(name) ::= 
<if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
Exit(<ruleReturnValue()>):
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= 
<if(backtracking)>
<if (State.Failed) then Exit(<ruleReturnValue()>)::<endif>
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= 
<if(backtracking)>
<if (State.Backtracking > 0) then
begin
State.Failed := True;
Exit(<ruleReturnValue()>)
end;<endif>
<<
genericParserRuleDeclaration(rule, ruleDescriptor) ::= <if(ruleDescriptor.isSynPred)>
<else>
<ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
<returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
public
<if(ruleDescriptor.hasMoreReturnValues)>
function <rule.ruleName>: I<returnType()>;
<else>
<if(ruleDescriptor.hasMoreSingleReturnValue)>
function <rule.ruleName>: <returnType>();
<else>
procedure <rule.ruleName>;
<endif>
<endif>
<endif>
>>
genericParserRuleInterface(rule, ruleDescriptor) ::= <if(ruleDescriptor.isSynPred)>
<else>
<if(ruleDescriptor.hasMoreReturnValues)>
function <rule.ruleName>: I<returnType()>;
<else>
<if(ruleDescriptor.hasMoreSingleReturnValue)>
function <rule.ruleName>: <returnType>();
<else>
procedure <rule.ruleName>;<
<endif>
<endif>
<endif>
>>

genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(ruleDescriptor.isSynPred)>
<else>
I<returnType()> = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;<
<endif>
<endif>
<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start ",<ruleName>"
(* <fileName>:<description> *)
<if(ruleDescriptor.hasMultipleReturnValues)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType>();
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType>();
<else>
procedure
T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
<endif>
<endif>

var
<ruleDescriptor.actions.vars>
 Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
 RetVal: I<returnType>();<
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
 RetVal: <returnType>();<
<else>
<endif>
<endif>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationDefVars()>
<ruleLabelDefVars()>
begin
Locals.Initialize;
try
<if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try
try
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
>}
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
except
on RE: ERecognitionException do
begin
ReportError(RE);
Recover(Input,RE);
<@setErrorReturnValue()>
end;<ln>
<endif>
<endif>
<endif>
<endif>
<@postamble()>
finally
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
end;
<@postamble()>
finally
Locals.Finalize;
end;
Exit(<ruleReturnValue()>):
end;
// $ANTLR end "<ruleName>"

catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType>().Create;
RetVal.Start := Input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name> := <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; 
}|>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex := Input.Index();
<endif>
>>

ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name>: <a.type>; 
}|>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex: Integer;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
RetVal.Stop := Input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (State.Backtracking > 0) then
Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor:block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<ruleDescriptor.parameterScope>
procedure
T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;
try
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><n>
</if>

<else>
    TokenType := <ruleName>;
    Channel := DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    State.TokenType := TokenType;
    State.Channel := Channel;
    <ruleDescriptor.actions.after):execAction()>
</endif>

finally
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
end;
finally
    Locals.Finalize;
end;
end;

// $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
    Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
    <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
    mTokens;
end;

// S U B R U L E S
/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
  case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
  end;
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
  case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
  end;
<@postbranch()>
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
FCnt[decisionNumber] := 0;
<decls>
@preloop()
while (True) do
begin
Alt[decisionNumber] := maxAlt;
@predecision()
<decision>
@postdecision()
case Alt[decisionNumber] of
<alts:altSwitchCase()>
else
begin
if (FCnt[decisionNumber] >= 1) then
Break;
@ruleBacktrackFailure()
raise EEarlyExitException.Create(decisionNumber, Input);<@earlyExitException()>
end;
end;
Inc(FCnt[decisionNumber]);
end;
@postloop()>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
<decls>
@preloop()
while (True) do
begin
Alt[decisionNumber] := maxAlt;
@predecision()
<decision>
@postdecision()
case Alt[decisionNumber] of
<alts:altSwitchCase()>
else
Break;
end;
end;
@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
<i>:</i>
<@prealt()>
<i>\n</i>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
(* <fileName>:<description> *)
begin
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<i.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<iif(label)><label> := <endif>Match(Input, <token>,
FOLLOW_<token>_in_<ruleName><elementIndex>)<iif(label)>

as
I<labelType><endif>;<n><checkRuleBacktrackFailure()>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<llistLabel(elem=label,...)>>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList\<IANTLRInterface\>.Create;
list_<label>.Add(<elem>);<n>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);<n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> := Input.LA(1);<n>
<endif>
MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>

/** For now, sets are interval tests and must be tested inline */
mismatch(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(!LEXER)>
<label> := Input.LA(1);<n>
<else>
<label> := Input.LT(1) as I<labelType>;<n>
<endif>
<endif>
if (<<<) then
begin
Input.Consume;
<postmatchCode>
<if(!LEXER)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else

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begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>
@if(LEXER)>
Recover(FException);
raise FException;\n
<else>
raise FException;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
end;\n
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
@if(label)>
Locals.AsInteger['<label>Start'] := CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start'], CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(label,elementIndex) ::= <<
@if(label)>
<label> := Input.LT(1) as I<labelType>;<
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> := Input.LA(1);
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabel(elem=label,...)> 
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
  PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
  <if(label)>
  <label> := <if(scope)><scope:delegateName()>.'<rule.name>(<args; separator=', '>);<
  <else>
  <if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name
>(<args; separator=', '>);<
  <endif>
  State.FollowingStackPointer := State.FollowingStackPointer - 1;
  <checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label,...)> 
>>

/** A lexer rule reference.
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
  <if(label)>
  Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
  <if(scope)><scope:delegateName()>.'m'<rule.name>(<args; separator=', '>);
  <checkRuleBacktrackFailure()>
  <label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(...)>
  <listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
    Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
    Match(EOF); <checkRuleBacktrackFailure()>
    Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
    Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
  <else>
    Match(EOF); <checkRuleBacktrackFailure()>
  <endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, 
      enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if (Input.LA(1) = TToken.DOWN) then 
    begin 
      Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
      <children:element()>
      Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
    end;
  <else>
    Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(Input, TToken.UP, nil);<
    <checkRuleBacktrackFailure()>
  <endif>
>>

/** Every predicate is used as a validating predicate (even when it is 
  * also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description) ::= <<
if (not (<evalPredicate(...)>) then
begin
<ruleBacktrackFailure()>
raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');</n>
end;<n>
>>

// F i x e d  D F A  (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<n>
<edges; separator="\nelse ">
else
begin
<if(eotPredictsAlt)>
Alt[<decisionNumber>] := <eotPredictsAlt>;<n>
<else>
<ruleBacktrackFailure()>
raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<n>
<endif>
end;
>>

/** Same as a normal DFA state except that we don't examine lookahead
*  for the bypass alternative.  It delays error detection but this
*  is faster, smaller, and more what people expect.  For (X)? people
*  expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
*  loop.  If end-of-token (EOT) predicts any of the targets then it
*  should act like a default clause (i.e., no error can be generated).
*  This is used only in the lexer so that for ('a')* on the end of a rule
*  anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<n>
<if(eotPredictsAlt)>
if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; </if>
else
begin
Alt[<decisionNumber>] := <eotPredictsAlt>;
end;
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
<targetState>
end <! no ; here !>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
case Input.LA(<k>) of
<edges; separator="\n">... else
begin
@if(eotPredictsAlt)>
Alt[<decisionNumber>] := <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
@noViableAltException()>
raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);
@endif>
end;
end;<\n>
>>
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
case Input.LA(<k>) of
<edges; separator="\n">... end;<\n>
>>
dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n">\\n  <if(eotPredictsAlt)>
  else
    Alt[<decisionNumber>] := <eotPredictsAlt>;<\\n  endif>
  end;<\\n>>

dfaEdgeSwitch(labels, targetState) ::= <<
  <labels:{<it>}; separator="\n">:
begin
  <targetState>
end;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
  Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
>>

/* Dump DFA tables.
*/
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
  TDFA<dfa.decisionNumber> = class(TDFA)
protected
  { IDFA }
function Description: String; override;
public
  constructor Create(const ARecognizer: IBaseRecognizer);
  end;
var
  FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
  function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
                 const AInput: IIntStream): Integer;<endif>
>>
cyclicDFA(dfa) ::= <<
  { T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }
constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer: IBaseRecognizer);
const
DFA<dfa.decisionNumber>_EOT = 'dfa.javaCompressedEOT; wrap="\n"';
DFA<dfa.decisionNumber>_EOF = 'dfa.javaCompressedEOF; wrap="\n"';
DFA<dfa.decisionNumber>_MIN = 'dfa.javaCompressedMin; wrap="\n"';
DFA<dfa.decisionNumber>_MAX = 'dfa.javaCompressedMax; wrap="\n"';
DFA<dfa.decisionNumber>_ACCEPT = 'dfa.javaCompressedAccept; wrap="\n"';
DFA<dfa.decisionNumber>_SPECIAL = 'dfa.javaCompressedSpecial; wrap="\n"';
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (
  <dfa.javaCompressedTransition:{s|'<s; wrap="\n">'}; separator=",\n">);
begin
  inherited Create;
  Recognizer := ARecognizer;
  DecisionNumber := <dfa.decisionNumber>;
  EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
  EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
  Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
  Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
  Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
  Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
  Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
  Result := '<dfa.description>;
end;

<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer; const AInput: IIntStream): Integer;
var
  Locals: TLocalStorage;
  Input: IIntStream;
<endif>
<if(PARSER)>
  Input: ITokenStream;
<endif>
<if(TREE_PARSER)>
  Input: ITreeNodeStream;
<endif>
  _S: Integer;
  NVAE: ENoViableAltException;
begin
  Result := -1;
Locals.Initialize;
try
  <if(LEXER)>
  Input := AInput;
  <endif>
  <if(PARSER)>
  Input := AInput as ITokenStream;
  <endif>
  <if(TREE_PARSER)>
  Input := AInput as ITreeNodeStream;
  <endif>
  _S := S;
  case S of
    <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
      <state> <
    end;}; separator="\n">
    end;
  <if(backtracking)>
    if (State.Backtracking > 0) then
      begin
        State.Failed := True;
        Exit(-1);
      end;
    <endif>
    NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);
    DFA.Error(NVAE);
    raise NVAE;
  finally
    Locals.Finalize;
  end;
end;<
>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
*  state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n>
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
    Input.Rewind;<\n>
  <endif>
  S := -1;
  <edges; separator="\\nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
    Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n>
  <endif>
  if (S >= 0) then
Exit(S);

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
  S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
S := <targetStateNumber>;<
>>

// D F A  E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator=" or ">")

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
  ((FLA[<decisionNumber>,<stateNumber>] \>= <lowerAsInt>) and (FLA[<decisionNumber>,<stateNumber>] \=< <upperAsInt>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>= <lowerAsInt>) and (Input.LA(<k>) \=< <upperAsInt>)"

setTest(ranges) ::= "<ranges; separator=" or "]"
// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<scope.name>Stack := TStackList\l\lI<scope.name>Scope\r.Create;
<endif>
>>

globalAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes: {<it.name>: <it.type>;}; separator="\n"> end;
strict protected
<scope.name>Stack: IStackList\l\lI<scope.name>Scope\r;
<endif>
>>

ruleAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes: {<it.name>: <it.type>;}; separator="\n"> end;
strict protected
<scope.name>Stack: IStackList\l\lI<scope.name>Scope\r;
<endif>
>>

ruleAttributeScope(scope) ::= <<
! protected Stack <scope.name>Stack = new Stack();
!>
>>

ruleAttributeScopeInit(scope) ::= <<
<if(scope)>
<scope.name>Stack := TStackList\l\lI<scope.name>Scope\r.Create;
<endif>
>>

returnStructName() ::= "<it.name>_return"
returnType() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    <ruleDescriptor:returnStructName()>
    <! I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope !>
    <else>
    <if(ruleDescriptor.hasSingleReturnValue)>
      <ruleDescriptor.singleValueReturnType>
    <else>
    ! Pointer/void !
    <endif>
    <endif>
  >>

  /** Generate the C# type associated with a single or multiple return
   *  values. */
  ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
      I<referencedRule.name>_return
    <else>
    <if(referencedRule.hasSingleReturnValue)>
      <referencedRule.singleValueReturnType>
    <else>
    void
    <endif>
    <endif>
  >>

  delegateName() ::= <<
    <if(it.label)><it.label><else>g<it.name><endif>

  /* Using a type to init value map, try to init a type; if not in table
   *  must be an object, default value is ”null”. */
  initView(typeName) ::= <<
    <csharpTypeInitMap.(typeName)>
  >>

  /** Define a rule label including default value */
  ruleLabelDef(label) ::= <<
    <label.label.text> := <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
  >>

  ruleLabelDefVar(label) ::= <<
    <label.label.text> : <ruleLabelType(referencedRule=label.referencedRule)>
  >>
/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{ T<ruleDescriptor:returnStructName()> }
<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
<endif>
>>
returnScopeDeclaration(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public
type
T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
end;
<endif>
>>
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>
parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>;"
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>
<endif>
<endif>
>>
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>

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/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like \{sfunction.size()>0 && sfunction::name.equals("foo")\}. */
isolatedDynamicScopeRef(scope) ::= ",scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  (IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
  <else>
  <scope>
  <endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  RetVal.<attr.name>
  <else>
  <attr.name>
  <endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  RetVal.<attr.name> := <expr>;
  <else>
  <attr.name> := <expr>;
  <endif>
>>

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= ",<label>"

/** ids+=ID \{ids\} or e+=expr \{e\} */
listLabelRef(label) ::= "list_<label>"
// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(Def(<scope>).Tree as I<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    IfThen(Assigned(<scope>), Input.TokenStream.ToString(
      Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
      Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start), ''), '')
  <else>
    IfThen(Assigned(<scope>), Input.ToString(
      (Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), '')
  <endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "(RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "(RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)>
  Input.TokenStream.ToString(
    Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
    Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
  <else>
    Input.ToString(RetVal.Start as IToken,Input.LT(-1))
<<
lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if (<actions.(actionScope).synpredgate>) then
        begin
          <action>
        end;
    <else>
      if (State.Backtracking = 0) then
        begin
          <action>
        end;\n
    <endif>
  <else>
    <action>
  <endif>
>>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// Misc (properties, etc...)
bitset(name, words64) ::= <<<
  <name> := TBitSet.Create([<words64:{<it>};separator="","}]);\n>>>
bitsetDecl(name) ::= <<
  <name> : IBitSet;
>>

codeFileExtension() ::= ".pas"

true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/Delphi.stg

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/PositionTrackingStream.java
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*/
@genericParserHeaderFile.memVars() ::= <<
/* AST parserHeaderFile.memVars */
NSInteger ruleLevel;
NSArray *ruleNames;
<@super.memVars()>  /* AST super.memVars */
<parserMemVars()>  /* AST parserMemVars */
>>

@genericParserHeaderFile.properties() ::= <<
/* AST parserHeaderFile.properties */
<@super.properties()>  /* AST super.properties */
<parserProperties()>  /* AST parserProperties */
>>

@genericParserHeaderFile.methodsDecl() ::= <<
/* AST parserHeaderFile.methodsDecl */
<@super.methodsDecl()>  /* AST super.methodsDecl */
<parserMethodsDecl()>  /* AST parserMethodsDecl */
>>
@genericParser.synthesize() ::= <<
/* AST genericParser.synthesize */
@@super.synthesize()>
<parserSynthesize()>
>>

@genericParser.methods() ::= <<
/* AST genericParser.methods */
@@super.methods()>
<parserMethods()>
>>

/* additional init code for tree support */
@genericParser.init() ::= <<
/* AST genericParser.init */
@@super.init()>
[self setTreeAdaptor:[[CommonTreeAdaptor newTreeAdaptor] retain]]; 
>>

@genericParser.dealloc() ::= <<
/* AST genericParser.dealloc */
[self setTreeAdaptor:nil]>
@@super.dealloc()>
>>

/* Add an adaptor property that knows how to build trees */
parsersMemVars() ::= <<
/* AST parserMemVars */
id<TreeAdaptor> treeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parsersProperties() ::= <<
/* AST parserProperties */
@property (retain, getter=getTreeAdaptor, setter=setTreeAdaptor:) id<TreeAdaptor> treeAdaptor;
>>

/** Declaration of additional tree support methods - go in interface of parserHeaderFile */
parsersMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<TreeAdaptor>) getTreeAdaptor;
- (void) setTreeAdaptor:(id<TreeAdaptor>) theTreeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parsersSynthesize() ::= <<
/* AST parserProperties */
@synthesize treeAdaptor;

/** Definition of addition tree support methods - go in implementation of genericParser() */
parserMethods() ::= <<
/* AST parserMethods */
- (id<TreeAdaptor>) getTreeAdaptor
{
  return treeAdaptor;
}

- (void) setTreeAdaptor:(id<TreeAdaptor>)aTreeAdaptor
{
  if (aTreeAdaptor != treeAdaptor) {
    treeAdaptor = aTreeAdaptor;
  }
}
>>

/** addition memVars for returnscopes */
returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope properties */
returnScopeInterface.properties() ::= <<
/* AST returnScopeInterface.properties */
@property (retain, getter=getTree, setter=setTree:) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
returnScopeInterface.methodsDecl() ::= <<
/* AST returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;
>>

/** the implementation of returnScope synthesize */
returnScopeImplementation.synthesize() ::= <<
/* AST returnScope.synthesize */
@synthesize tree;
>>

/** the implementation of returnScope methods */
returnScopeImplementation.methods() ::= <<
/* AST returnScope.methods */
- (<ASTLabelType> *)getTree
{  
  return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
  if (tree != aTree) {
    if (tree != nil) [tree release];
    if (aTree != nil) [aTree retain];
    tree = aTree;
  }
}

- (void) dealloc
{
  self.tree = nil;
  [super dealloc];
}

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<<
/* AST ruleDeclarations */
<super.ruleDeclarations()>
ASTLabelType> *root_0 = nil;<<
>>

ruleLabelDefs() ::= <<<
/* AST ruleLabelDefs */
<super.ruleLabelDefs()>
[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,  
ruleDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> *<it.label.text>_tree=nil;}; separator="\n"
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> *<it.label.text>_tree = nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:{it | RewriteRuleTokenStream *stream_<it> =  
  [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor  
  description:@"token <it>" retain;];} separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:{it | RewriteRuleSubtreeStream *stream_<it> =  
  [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor  
  description:@"rule <it>" retain;];} separator="\n">
>>

ruleCleanUp() ::= <<<
/* AST ruleCleanUp */
<super.ruleCleanUp()>
[ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites]:{it |
  [stream_<it> release;];} separator="\n"
<!
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(backtracking)>if ( state.backtracking == 0 ) { <\n
<endif>
[<prevRuleRootRef()> setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];<\n
[treeAdaptor setTokenBoundaries:[<prevRuleRootRef()> getTree]
From:[<prevRuleRootRef()> getStart]
To:[<prevRuleRootRef()> getStop];<\n
<if(backtracking)>]<\n
<endif>
[root_0 release];
!>
>>

rewriteCodeLabelsCleanUp() ::= <<
/* AST rewriteCodeLabelsCleanUp */
<referencedTokenLabels:{it | [stream_<it> release];}; separator="\n">
<referencedTokenListLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleListLabels:{it | [stream_<it> release];}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType> *)([treeAdaptor class] newEmptyTree] retain);<\n
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex) ::= <<
! <super.tokenRef(...)> !>
[tokenRefBang(...)] ! Track implies no auto AST construction!>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <endif>
[stream_<token> addElement:<label>];<\n
>>
/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex) ::= <<
  <tokenRefTrack(...)>
  <listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
  <! <super.tokenRef(...)> !>
  <tokenRefBang(...)> 
  <if(backtracking)>if ( !<actions.(actionScope).synpredgate> ) <endif>
    [stream_<token> addElement:<label>];<\n> 
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex) ::= <<
  <tokenRefRuleRootTrack(...)>
  <listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    [stream_<rule.name> addElement:[<label> getTree]];<\n> 
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)>
  <listLabel(elem={[<label> getTree]},...})>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <! <super.ruleRefRuleRoot(...)> !>
  <ruleRefRuleRoot(...)> 
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    [stream_<rule.name> addElement:[<label> getTree]];<\n> 
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRootTrack(...)>
  <listLabel(elem={[<label> getTree]},...})>
rewroteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= 
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=" ">
// token labels: <referencedTokenLabels; separator=" ">
// rule labels: <referencedRuleLabels; separator=" ">
// token list labels: <referencedTokenListLabels; separator=" ">
// rule list labels: <referencedRuleListLabels; separator=" ">
// wildcard labels: <[referencedWildcardLabels, referencedWildcardListLabels]; separator=" ">

<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<
<endif>
<prevRuleRootRef()>.tree = root_0;<
<rewriteCodeLabels()> root_0 = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];<
<alts:rewriteAlt(); separator="else ">
<if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)[treeAdaptor rulePostProcessing:root_0];
[input replaceChildren:[treeAdaptor getParent:retval.start]
  From:[treeAdaptor getFirstChild:retval.start]
  To:[treeAdaptor getChildIndex:_last]
  With:retval.tree];
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;<
<endif>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;<
<endif>
<endif>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
<refencedOptionalLabel:
[i] RewriteRuleSubtreeStream *stream_<i> = 
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:@"token <i>" element:<i>!=[<i> getTree]=nil] retain];];
separator="\n"
>
// <fileName>::<description>
if ( <referencedElementsDeep:{el | [stream_<el> hasNext]]; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | [stream_<el> reset];
}>>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>::<description>
while ( <referencedElements:{el | [stream_<el> hasNext]]; separator="||"> ) {
  <alt>
}
<referencedElements:{el | [stream_<el> reset];
}>>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>::<description>
{
  if ( !(<referencedElements:{el | [stream_<el> hasNext]]; separator=" || ">) ) {
      @throw [RewriteEarlyExitException newException];
    }
  while ( <referencedElements:{el | [stream_<el> hasNext]]; separator=" || "> ) {
    <alt>
  }
  <referencedElements:{el | [stream_<el> reset];
}>}
}

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>) {
  <a.alt>
}<\n>
@else
{  // if(a.pred) }
  <a.alt>
}@\n>
/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = nil;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
   <ASTLabelType> *root_<treeLevel> = (<ASTLabelType> *)[[treeAdaptor class] newEmptyTree] retain;
   <root:rewriteElement()>
   <children:rewriteElement()>
   [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
}<<
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
   @pregen()
   <e.el>
}<<
>>

/** Gen ID or ID[$args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
   // TODO: args: <args; separator=" ">
   [treeAdaptor addChild:<createRewriteNodeFromElement(...)> toTree:root_<treeLevel>];<
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
   [treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
   [treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
   root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
   old:root_<treeLevel>];<
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot
/** Gen \^\(ID \ldots\) or \^\(ID[\text{args}] \ldots\) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,token) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createRewriteNodeFromElement(...)>
old:root_<treeLevel>];

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
[treeAdaptor addChild:<createImaginaryNode(tokenType=token, ...) toTree:root_<treeLevel>];

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ...)>
old:root_<treeLevel>];

/** plain -> \{\text{foo}\} action */
rewriteAction(action) ::= <<
root_0 = <action>;

/** What is the name of the previous value of this rule's root tree?  This
* let's us refer to $rule to mean previous value.  I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites.  The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
[treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel>];

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:id<Tree>[stream_<rule> nextNode]
old:root_<treeLevel>];

rewriteNodeAction(action) ::= <<
[treeAdaptor addChild:<action> toTree:root_<treeLevel>];

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= «
    [treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
»

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= «
    root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
    old:root_<treeLevel>];
»

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= «
    root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
    old:root_<treeLevel>];
»

rewriteWildcardLabelRef(label) ::= «
    [treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
»

createImaginaryNode(tokenType,terminalOptions,args) ::= «
    <if(terminalOptions.node)>
        [<terminalOptions.node> new<terminalOptions.node>:<tokenType> <if(args)>, <args; separator="",""><endif>]
    <else>
        <if(args)>
            [[treeAdaptor createTree:<tokenType> <if(first(args))>FromToken:<first(args)><endif>
            <if(first(rest(args))))>Text:<first(rest(args))><else>Text:@"<tokenType>"<endif>] retain]
        <else>
            [[treeAdaptor createTree:<tokenType> Text:@"<tokenType>"] retain]
        </if>
    </if>
»

createRewriteNodeFromElement(token,terminalOptions,args) ::= «
    <if(terminalOptions.node)>
        [<terminalOptions.node> new<terminalOptions.node>:[stream_<token> nextToken] <if(args)>, <args; separator="",""><endif>]
    <else>
        <if(args)>
            <! must create new node from old !>
            [[treeAdaptor createTree:<token> Text:<first(rest(args))> <args; separator="","">] retain]
        <else>
            [stream_<token> nextNode]
        </if>
    </if>
»

---

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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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/*
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/LoadingCache.java
Jar: com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/guava-31-1-jre-sources-jar/com/google/common/cache/package-info.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/PeekingIterator.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMultimap.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Table.java
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 */
/**
 * Hold for web specializations of methods of { @code Shorts}. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/NullnessCasts.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/NullnessCasts.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java

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*/
/**
* Holder for web specializations of methods of [@code Floats]. Intended to be empty for regular
* version.
*/

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*/
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
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 */
/**
 */

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jar/com/google/common/base/Function.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Predicates.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Supplier.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Flushables.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/Platform.java
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jar/com/google/common/collection/ImmutableSortedAsList.java
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jar/com/google/common/hash/MacHashFunction.java
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 */
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 */

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java

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 */
/**
**
 * Holder for web specializations of methods of [@code Ints]. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/
jar/com/google/common/collection/ReverseOrdering.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Multisets.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Maps.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractMultiset.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Iterables.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Synchronized.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingConcurrentMap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/HashMultimap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Ordering.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/EnumBiMap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/MapDifference.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingSortedMap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Multimap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/BiMap.java
* /opt/cola/permissions/1292116189_164793632.95/0/guava-31-1-jre-sources-
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingObject.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ExplicitOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/LinkedListMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingQueue.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingIterator.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/LongAddables.java
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 */
/**
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 * version.
 */

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jar/com/google/common/util/concurrent/Internal.java

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 */

/*
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java

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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
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jar/com/google/common/util/concurrent/ServiceManagerBridge.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/BaseImmutableMultimap.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

@item
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That's all there is to it!

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That's all there is to it!
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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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

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

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

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
@example
Gnomovision version 69, Copyright (C) @var{year}  @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end example

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

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

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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

The following parts are under the LGPL, see file intl/COPYING.LIB:
- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel
directory:
- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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How to Apply These Terms to Your New Libraries

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

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

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

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

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

That's all there is to it!
Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar license but with different Copyright notices) all the files are:

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Version 3, 29 June 2007

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Preamble

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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

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

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

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

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The Corresponding Source for a work in source code form is that same work.

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jar/com/espertech/esper/metrics/codahale_metrics/metrics/core/ThreadPools.java
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  jar/com/espertech/esper/eval/EnumGroupByKeySelectorScalarLambdaForge.java
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  jar/com/espertech/esper/agg/access/AggregationAccessorForgeGetCodeGenenContext.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/support/Errors.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/maintenance/StatusResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/cluster/Util.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/election/CampaignResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthRoleAddResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/maintenance/AlarmResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/maintenance/DefragmentResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/support/MemorizingClientSupplier.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/maintenance/SnapshotResponse.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/cluster/Member.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/resolver/DnsSrvResolverProvider.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthRoleGetResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/watch/WatchEvent.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/lease/LeaseKeepAliveResponseWithError.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthUserChangePasswordResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/lock/UnlockResponse.java

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*/
/**
* Defragment one member of the cluster by its endpoint.
* 
* After compacting the keyspace, the backend database may exhibit internal
* fragmentation. Any internal fragmentation is space that is free to use
* by the backend but still consumes storage space. The process of
* defragmentation releases this storage space back to the file system.
* Defragmentation is issued on a per-member so that cluster-wide latency spikes may be avoided.

* Defragment is an expensive operation. User should avoid defragmenting multiple members at the same time.

* To defragment multiple members in the cluster, user need to call defragment multiple times with different endpoints.

* @param target the etcd server endpoint.

* @return the response result

*/

** 1.898 inspektr-common 1.0.0.GA**

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* /opt/cola/permits/1258367539_1643062108.56/0/inspektr-common-1-0-0-ga-sources-jar/com/github/inspektr/common/spi/ClientInfoResolver.java
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Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1- jar/org/iso_relax/dispatcher/IslandSchemaReader.java

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/*
 * @(#)Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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jar/org/iso_relax/dispatcher/impl/IgnoredSchema.java

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/*
 * @(#)$Id: Dispatcher.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $  
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jar/org/iso_relax/dispatcher/Dispatcher.java

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 * @(#)$Id: IslandVerifier.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $  
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  jar/org/iso_relax/dispatcher/IslandVerifier.java
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* @(#)Id: AttributesDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp $
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* jar/org/iso_relax/dispatcher/ElementDecl.java

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jar/org/iso_relax/dispatcher/IslandSchema.java
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 * @(#)Id: DispatcherImpl.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/impl/DispatcherImpl.java

1.902 jetty 8.1.7.v20120910
1.902.1 Available under license :
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Connector: HTTP Connector.
server: MObject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).
open(): Open the listening port
close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard [link java.lang.Appendable} and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {link #append(byte)} may be needed before state a character is
 * appended to the string buffer.
The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
http://bjoern.hoehrmann.de/utf-8/decoder/dfa/

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jar/org/eclipse/jetty/util/resource/BadResource.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/handler/jmx/ContextHandlerMBean.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/nio/NetworkTrafficSelectChannelEndPoint.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/http/HttpContext.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/nio/SelectorManager.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketClient.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/resource/ResourceCollection.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty UTIL/JarFileResource.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/http/HttpHeaders.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/ByteArrayBuffer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/http/HttpURI.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/bio/StringEndPoint.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketGenerator.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/ajax/JSONDateConvertor.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/http/HttpContent.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/LocalConnector.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/nio/SelectChannelEndPoint.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/ssl/SslCertificates.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/Extension.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/http/PathMap.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/SimpleBuffers.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
 * confidential port, and said port is not our port, then we're not. This allows separation of
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */
/**
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
 * port, and said port is not our port, then we're not. This allows separation of listeners
 * providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
 * require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
 * client certs providing mere INTEGRAL constraints.
 */

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
  jar/org/eclipse/jetty/util/security/Constraint.java
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*/

* @see org.eclipse.jetty.server.Connector#getConfidentialPort()
*/

* @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
*/

* @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
*/

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/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @param confidentialPort
 *            The confidentialPort to set.
 */
/**
 * @param confidentialScheme
 *            The confidentialScheme to set.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/AbstractConnector.java
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/*
 * @(#)UnixCrypt.java	0.9 96/11/25
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/**
 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
* @param request A request
* @return true if the request is confidential. This normally means the https schema has been used.
*/

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/Connector.java
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AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor the acceptance of new threads and newly active connections or to favor the handling of already dispatched connections.
forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)
forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)
forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.
host: Host name of the server.
hostHeader: Forced value for the host header. Only used if forwarded is true.
soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/jmx/AbstractConnector-mbean.properties
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* CONFIDENTIAL constraints, such as one SSL listener configured to require
  * client certs providing CONFIDENTIAL, whereas another SSL listener not
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*/

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java
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 * @param request the incoming HTTP request
 * @return the result of calling { @link Connector#isConfidential(Request)}, or false
 * if there is no connector
 */

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/AbstractHttpConnection.java

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 * Rob Earhart
 * Rob Siemborski
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1.909 distro 1.6.0

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1.910 py3-webencodings 0.5.1-r4

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    webencodings.mklables
    ~~~~~~~~~~~~~~~~~~~

    Regenerate the webencodings.labels module.

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    import json
    try:
      from urllib import urlopen
    except ImportError:
      from urllib.request import urlopen

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

    def generate(url):
      parts = "\n      "

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.
# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    []
}

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

max_len = max(len(label) for label, name in labels)
parts.extend(
    '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)

parts.append('}

return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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from setuptools import setup, find_packages
import io
import re

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

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/setup.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

=================================
This is a Python implementation of the `WHATWG Encoding standard`_
<http://encoding.spec.whatwg.org/>._

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
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* Python 2.6+ and 3.3+

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

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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1.912 jackson-xc 2.10.5

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/web/support/WebUtils.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/services/web/ServiceThemeResolver.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/ticket/support/HardTimeoutExpirationPolicy.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/ImmutableAuthentication.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/validation/Assertion.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/principal/CredentialsToPrincipalResolver.java
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 * Marker interface for credentials required to authenticate a principal.
 *
 * The Credentials is an opaque object that represents the information a user
 * asserts proves that the user is who it says it is. In CAS, any information
 * that is to be presented for authentication must be wrapped (or implement) the
 * Credentials interface. Credentials can contain a userid and password, or a
 * Certificate, or an IP address, or a cookie value. Some credentials require
 * validation, while others (such as container based or Filter based validation)
 * are inherently trustworthy.
 *
 * People who choose to implement their own Credentials object should take care that
 * any toString() they implement does not accidentally expose confidential information.
 * toString() can be called from various portions of the CAS code base, including logging
 * statements, and thus toString should never contain anything confidential or anything
 * that should not be logged.
 *
 * Credentials objects that are included in CAS do NOT expose any confidential information.
 *
 * @author William G. Thompson, Jr.
 * @version $Revision: 1.2 $ $Date: 2007/01/22 20:35:26 $
 * @since 3.0
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1.918 commons-compiler 3.0.7

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  jar/org/codehaus/commons/compiler/Location.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/IExpressionEvaluator.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/IScriptEvaluator.java
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  jar/org/codehaus/commons/compiler/IClassBodyEvaluator.java
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  jar/org/codehaus/commons/compiler/ErrorHandler.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/Cookable.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/IClassBodyEvaluator.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/LocatedException.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/ErrorHandler.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/Cookable.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/samples/DemoBase.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/ISimpleCompiler.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
jar/org/codehaus/commons/compiler/samples/ExpressionDemo.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
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* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
jar/org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
jar/org/codehaus/commons/compiler/package-info.java
* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
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* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
jar/org/codehaus/commons/compiler/ICompilerFactory.java
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jar/org/codehaus/commons/compiler/CompilerFactoryFactory.java
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jar/org/codehaus/commons/compiler/samples/ScriptDemo.java
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1.919 jaxb-core 2.2.11

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1.924 jetty-util 8.1.7.v20120910

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONObjectConvertor.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/PatternMatcher.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Scanner.java
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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/IntrospectionUtil.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/component/FileDestroyable.java
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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/BadResource.java
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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/LoginConfigurationLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Util.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/component/Dumpable.java
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 * @(#)UnixCrypt.java 0.9 96/11/25
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard [@link java.lang.Appendable] and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to [@link #append(byte)] may be needed before state a character is
 * appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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jar/org/eclipse/jetty/util/Utf8Appendable.java

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jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-
jar/javassist/bytecode/annotation/Annotation.java
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java

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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformBefore.java
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtNewWrappedConstructor.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ByteStream.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtNewClass.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtField.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/ConstPool.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/scopedpool/SoftValueHashMap.java
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/web/Webserver.java
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1.933 jakarta xml bind api 2.3.3

1.933.1 Available under license:

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This content is produced and maintained by the Jakarta XML Binding project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxb

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api
* https://github.com/eclipse-ee4j/jaxb-tck

## Third-party Content

This project leverages the following third party content.

Apache River (3.0.0)

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ASM 7 (n/a)

* License: BSD-3-Clause
* Project: https://asm.ow2.io/
* Source: https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-commons~~~~kw,versionexpand

JTHarness (5.0)

* License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
* Project: https://wiki.openjdk.java.net/display/CodeTools/JT+Harness
* Source: http://hg.openjdk.java.net/code-tools/jtharness/

normalize.css (3.0.2)

* License: MIT

SigTest (n/a)

* License: GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## Cryptography

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1.934 ca-certificates 20220614-r0

1.934.1 Available under license:

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

/* c_rehash.c - Create hash symlinks for certificates
 * C implementation based on the original Perl and shell versions
 * Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
 * All rights reserved.
 * This software is licensed under the MIT License.
 * Full license available at: http://opensource.org/licenses/MIT
 */

Found in path(s):
* /opt/cola/permits/1376394069_1659497040.3993607/0/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/c_rehash.c

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

#
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# file, You can obtain one at http://mozilla.org/MPL/2.0/.
#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT DER+base64 (varies)
# CKA_ID byte array (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER          DER+base64    (varies)
# CKA_VALUE                  DER+base64    (varies)
# CKA_NSS_EMAIL              ASCII7       (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64    (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64    (varies)

# Trust
#
# -- Attribute --  -- type --  -- value --
# CKA_CLASS        CK_OBJECT_CLASS     CKO_TRUST
# CKA_TOKEN        CK_BBOOL            CK_TRUE
# CKA_PRIVATE      CK_BBOOL            CK_FALSE
# CKA_LABEL        UTF8                 (varies)
# CKA_ISSUER       DER+base64           (varies)
# CKA_SERIAL_NUMBER DER+base64           (varies)
# CKA_CERT_HASH    binary+base64         (varies)
# CKA_EXPIRES      CK_DATE              (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST    (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST    (varies)
# CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST    (varies)
# CKA_TRUST_DATA_ENCIPHERMENT CK_TRUST    (varies)
# CKA_TRUST_KEY_AGREEMENT CK_TRUST       (varies)
# CKA_TRUST_KEY_CERT_SIGN CK_TRUST       (varies)
# CKA_TRUST_CRL_SIGN   CK_TRUST           (varies)
# CKA_TRUST_SERVER_AUTH CK_TRUST         (varies)
# CKA_TRUST_CLIENT_AUTH CK_TRUST         (varies)
# CKA_TRUST_CODE_SIGNING CK_TRUST        (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST    (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST    (varies)
# CKA_TRUST_IPSEC_TUNNEL   CK_TRUST        (varies)
# CKA_TRUST_IPSEC_USER    CK_TRUST         (varies)
# CKA_TRUST_TIME_STAMPING  CK_TRUST        (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL      (varies)
# (other trust attributes can be defined)
#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# Trust for "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
# Fingerprint (SHA-256):
<p>| | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EB</td>
<td>D4</td>
<td>10</td>
<td>40</td>
<td>E4</td>
<td>BB</td>
<td>3E</td>
<td>C7</td>
<td>42</td>
</tr>
<tr>
<td>Fingerprint (SHA1):</td>
<td>B1</td>
<td>BC</td>
<td>96</td>
<td>8B</td>
<td>D4</td>
<td>F4</td>
<td>9D</td>
<td>62</td>
</tr>
</tbody>
</table>

# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=('c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=Verisign Class 2 Public Primary Certification Authority - G3,OU=('c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\027\060\025\060\003\125\004\012\023\020\125\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\040\012\61\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\140\013\045\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

END
# Trust for "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number: 61:70:cb:49:8c:0d:2f:5b:3f:5d:2f:3f:5d:2f:5b:7a
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\370\276\304\143\042\311\125\010\64\213\270\035\036\112\053\366

END

CKA_ISSUER MULTILINE_OCTAL
\311\130\020\371\252\357\132\266\317\113\113\337\052
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\060\060\007\063\061\060\060\060\060\060\060\060\0132
END

# For Email Distrust After: Wed Aug 31 00:00:00 2022
# Certificate "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\167\167\167\167\167\167\167\167\167\167\167\167\167
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\166\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\034\015\151\141\142\056\051\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\015
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\010\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\167\167\167\167\167\167\167\167\167\167\167
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\166\056\040\142\171\040\162\145\146\056\040\050\154\151
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU==www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU==www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175
\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\123\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\123\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\105\056\040\142\171\104\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\100\040\132\123\134\050\143\051\040\050\107\107\107\107\107\107\107
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\163\060\061\100\060\003\125\004\032\023\052\015\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\161\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\102\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\115\143\336\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Baltimore CyberTrust Root"
#
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
\325\160\160\360\217\300\022\312\006\313\232\341\131\132\063\172
\167\326\370\354\271\361\150\041\021\100\023\322\300\032\244\256
\136\140\376\266\246\005\374\264\335\007\131\002\234\131\103\0230
\143\365\245\143\340\022\001\147\155\135\262\006\172\363\205\352\353
\324\003\256\136\024\076\137\377\025\355\151\274\371\071\066\162
\165\317\167\221\153\363\311\220\054\271\075\345\311\043\123\077
\037\044\230\041\134\007\231\051\275\306\072\354\347\156\206\072
\153\227\164\143\063\275\150\030\061\360\170\215\166\277\374\236
\216\165\052\206\247\115\220\334\047\032\071\002\003\001\000\001
\243\105\060\103\060\035\006\003\125\035\016\004\026\004\024\345
\235\131\060\202\107\130\314\254\372\010\124\066\206\173\072\265
\004\115\360\060\022\006\003\125\035\023\001\001\377\004\010\060
\006\001\001\137\077\002\001\003\060\016\006\003\125\035\017\001\001
\377\004\004\003\002\001\001\006\006\001\150\060\111\052\026\061\110\063\367
\015\001\001\100\050\005\000\003\023\020\001\001\000\205\014\135\216\344
\157\121\150\012\020\052\240\335\273\117\047\045\045\200\003\275\367\144
\375\055\323\070\060\034\334\244\020\027\353\332\205\051\266\171\177\016
\366\031\023\043\027\020\001\132\131\044\324\141\116\027\356\041\141
\152\022\212\127\025\012\275\305\274\060\174\326\351\104\045\215
\206\100\117\354\314\243\176\070\060\067\021\117\355\335\150\066
\216\114\232\262\300\011\164\356\276\165\136\007\110\032\177\169\0377
\026\134\204\030\171\120\270\005\357\177\276\145\021\243\017\300
\002\224\370\122\067\071\004\035\252\251\061\172\030\277\240\052\364
\022\231\367\243\105\022\343\074\136\365\235\236\265\310\236\174
\056\310\244\324\236\116\010\024\111\155\375\160\155\153\032\143\275
\144\046\037\267\316\360\362\237\056\273\033\267\362\120\210\163
\222\232\032\342\343\026\215\232\206\022\025\321\60\303\335\351\020\021
\356\176\065\253\322\205\076\060\224\172\320\063\075\247\145\017
\365\374\216\236\142\317\107\104\054\001\135\273\035\265\062\322
\107\322\207\005\063\230\076\201\134\062\152\036\265\356\074\325\374
\347\201\035\031\030\044\012\352\143\271\125
END

CKA_NSS MOZILLA_CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0 9333
# Certificate "Entrust Root Certification Authority"

# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\040\122\157\157\164
END

## Open Source Used In Crosswork Common EMS Services 4.0.0 9334
Open Source Used In Crosswork Common EMS Services 4.0.0
# Trust for "Entrust Root Certification Authority"

# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

# Serial Number: 1164660820 (0x456b5054)

# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

# Not Valid Before: Mon Nov 27 20:23:42 2006

# Not Valid After: Fri Nov 27 20:53:42 2026

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust Root Certification Authority"

CKA_ISSUER MULTILINE_OCTAL
\175\352\261\355\060\045\301\204\332\064\322\133\170\203\126\354
\234\066\303\046\342\021\366\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\003\014\060\202\001\364\240\003\002\001\002\002\003\001
\000\060\015\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\103\060\011\100\060\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\000\100\000\040
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\014\060\020\020\001\136\142\240\003\003\002\001\002\002\003\001
\000\004\006\015\006\001\105\206\110\206\067\015\001\001\000\005
\000\006\076\061\103\060\011\100\060\003\125\004\006\023\002\120\114
\061\033\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
# Trust for "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\064\216\006\102
\121\261\201\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\06\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\060\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\151\156\143\150\145\163\164\145\162\061\020\060\0016
\006\003\125\004\007\014\000\713\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\011\040\011\141\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\011\011\010\040\135\142\152\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\173\060\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\151\156\143\150\145\163\164\145\162\061\020\060\0016
\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\011\040\011\141\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\011\011\010\040\135\142\152\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\062\060\022\003\032\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145\162
\140\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032\060
\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\101\010\141\151\155\151\164\145\144\061\041\060\037\006\003\125
\004\003\014\030\011\011\010\040\135\142\152\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
Open Source Used In Crosswork Common EMS Services 4.0.0 9341
# Trust for "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\027\144\330\343\111

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\207\031\125\107\260\274\021\121\233\164\320

CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\100\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\140\222\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

# Certificate "QuoVadis Root CA 2"
# Trust for "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After: Mon Nov 24 18:23:33 2031
# Fingerprint (SHA-256):
# Class: CKO_NSS_TRUST
# Token: CK_TRUE
# Private: CK_FALSE
# Modifiable: CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071
\031\223\174\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\11\006\003\012\500\006\002\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\003\106\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA 3"
#
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After: Mon Nov 24 19:06:44 2031
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "0"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\11\006\003\012\500\006\002\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\003\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"


```c
\245\220\204\215\211\212\225\206\275\227\242\113\014\020\035\206
\231\214\252\263\236\212\202\212\234\343\352\366\233\332\250\135\247\115
\267\236\002\256\163\000\310\332\043\003\350\371\135\232\031\164\142
\000\224\313\042\040\276\222\247\131\265\202\152\276\231\171\172
\251\262\112\244\122\367\164\375\272\116\346\250\035\002\156\261
\015\200\104\301\256\323\043\067\137\273\205\174\053\222\056\350
\176\245\213\335\231\341\277\047\157\055\135\252\173\207\376\012
\335\113\337\242\163\365\046\344\156\160\101\215\063\354\061\236\173
\232\301\344\311\115\032\075\300\153\116\042\155\356\253\130\115
\306\320\101\013\053\352\117\022\207\136\353\105\300\154\365\230
\002\233\240\300\312\25\12\06\231\031\242\240\167\321\060\236\254
\314\165\155\203\356\260\142\071\137\154\127\342\114\332\221\013
\016\165\050\003\332\227\973\032\103\361\132\167\373\073\221\141
\270\151\050\026\12\02\004\136\160\052\034\041\330\217\341\275\043
\133\055\164\140\022\331\143\031\015\163\335\151\274\142\072\274
\340\164\053\262\353\175\276\101\033\265\300\106\305\241\042\313
\137\163\010\050\222\336\030\272\325\052\050\278\021\121\027\223
\230\231\140\024\221\344\043\317\132\047\227\136\013\005\006\223\067
\036\073\151\066\035\251\123\141\035\217\062\322\126\014\326\164
\076\117\030\444\332\001\167\107\304\073\315\064\224\231\163\5312
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\202\022
\132

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\243\367\330\164\222\053\335\256\002\300\276\375\072\055
\202\165\121\205

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\126\375\211\116\257\157\340\317
END
```
# Certificate "Security Communication Root CA"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
# Fingerprint (SHA-256):

# CKA_ISSUER MULTILINE_OCTAL
0601050601010306000110006000312500400060250020250020121\165\157\126\141\144
\151\155\151\164\145\144\061\033\060\003\105\105\101\115\116
\157\126\141\144\144\151\163\040\122\157
\157\164\040\103\101\040\063

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
002\002\005\036

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL
0601050601010306000110006000312500400060250020250020121\165\157\126\141\144
\151\155\151\164\145\144\061\033\060\003\105\105\101\115\116
\157\126\141\144\144\151\163\040\122\157
\157\164\040\103\101\040\063

END

# CKA_ID UTF8 "0"

# CKA_ISSUER_MULTIPLINE_OCTAL
0601050601010306000110006000312500400060250020250020121\165\157\126\141\144
\151\155\151\164\145\144\061\033\060\003\105\105\101\115\116
\157\126\141\144\144\151\163\040\122\157
\157\164\040\103\101\040\063

END

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
002\002\005\036

END
# Trust for "Security Communication Root CA"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"

END

END
# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After: Wed Sep 30 16:13:44 2037

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\140\123\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\100\060\003\125\004
\013\023\032\150\164\164\160\072\105\057\157\167\166\167\156\143\150
\141\155\142\145\162\163\151\147\156\156\157\162\157\104\102\106
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\015\146\040\103\157\155\155\154\162\143\145\040\122\157\157
\164
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\140\123\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\100\060\003\125\004
\013\023\032\150\164\164\160\072\105\057\157\167\166\167\156\143\150
\141\155\142\145\162\163\151\147\156\156\157\162\157\104\102\106
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\015\146\040\103\157\155\155\154\162\143\145\040\122\157\157
\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL

\002\001\000
END

Open Source Used In Crosswork Common EMS Services 4.0.0  9355
\333\241\051\133\127\131\115\166\006\166\341\321\124\122\120\060\016
\006\003\125\035\017\001\001\001\001\001\006\006\002\021
\006\011\140\206\110\001\020\063\070\020\021\001\001\004\004\000\020\000
\007\060\047\006\003\0125\035\021\004\040\060\036\036\201\034\131\150
\141\155\142\145\162\163\161\157\157\164\100\143\150\141\155\142
\154\152\163\115\114\056\157\162\147\060\047\006\003\125\035
\220\004\040\060\036\201\034\131\150\141\155\142\145\162\163\161
\157\157\164\100\143\150\141\155\142\145\156\150\056
\157\162\160\030\006\003\0125\035\040\014\121\060\117\060\011
\006\013\053\006\001\004\001\201\207\056\012\003\001\060\076\060
\074\006\010\053\006\001\005\005\007\002\001\026\060\150\164\164
\160\072\057\057\143\160\163\056\143\150\141\155\142\145\162\163
\151\147\156\056\157\162\147\040\014\131\150\160\163\057\143\150\141
\142\145\162\163\162\157\157\164\056\150\164\155\154\060\015\006
\011\052\020\110\020\063\067\015\001\011\005\005\000\003\032\020\001
\000\014\101\227\302\032\020\063\000\042\174\237\373\220\363\032\321
\003\261\357\023\371\041\137\004\234\332\323\112\45\215\047\154\226
\207\221\276\101\220\001\162\223\347\036\175\137\366\211\136\013
\247\100\001\011\075\254\111\105\053\334\056\215\060\150\262\011\272
\373\033\057\142\272\013\333\077\167\173\061\175\072\022\044\216
\226\217\074\005\012\157\332\222\040\035\155\151\043\300\056\210\004
\325\330\017\035\023\037\073\164\103\027\327\007\247\317\313\072\236
\073\074\064\130\000\117\324\202\273\374\015\120\367\372\263\354
\102\137\251\335\155\310\364\16\317\301\162\046\216\001\034
\134\054\375\172\116\264\001\130\055\012\27\271\347\074\252\005\331
\210\351\007\106\101\316\357\101\210\256\130\377\203\242\256\312
\327\167\037\347\000\007\242\325\157\216\344\062\011\035\115\170\064
\170\064\074\222\233\036\063\55\117\161\306\031\172\275\040\042\110
\132\376\113\175\003\267\347\130\276\306\062\116\164\036\150\335
\250\150\133\263\076\356\142\175\331\200\350\012\165\172\267\356
\264\145\232\041\220\340\252\320\230\274\070\265\163\074\213\370
\334
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
# Trust for "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037

END

# Trust for "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\006

CKA_ISSUER MULTILINE_OCTAL
\060\067\017\061\030\060\011\006\003\125\004\006\023\002\105\125\061

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
Open Source Used In Crosswork Common EMS Services 4.0.0  9359
# Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority, O=XRamp Security Services Inc., C=US
# Subject: CN=XRamp Global Certification Authority, O=XRamp Security Services Inc., C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After: Mon Jan 01 05:37:19 2035

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\13\060\01\10\066\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\13\060\01\10\066\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
# Inc,O=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
# Inc,O=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "Go Daddy Class 2 CA"

# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." ,C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." ,C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
# Fingerprint (SHA-256):

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
\360\303\241\332\242\330\156\053\123\220\373\044\244\076\204\360
\236\350\137\354\345\047\104\365\050\246\077\173\336\340\052\360
\310\257\123\057\232\361\200\051\223\022\146\034\077\124\71\115
\372\132\266\163\004\045\146\353\167\177\347\131\066\112\231\045
\204\214\335\046\307\363\177\031\325\060\160\217\257\260\106\052
\377\252\353\035\115\332\273\257\250\004\207\243\332\341\121\245\064
\137\333\103\221\202\066\331\146\074\261\127\027\121\023\375\234\072
\076\020\310\073\335\067\145\146\172\233\030\030\075\377\161\121
\074\040\056\137\276\075\167\163\262\135\006\154\033\043\126\232
\053\205\046\222\034\247\002\263\344\077\015\257\010\171\202\270
\066\075\352\234\323\205\262\274\151\312\365\314\323\50\375\144
\12\15\027\000\63\156\111\121\135\231\311\036\207\264\123\50\323\300
\325\156\203\065\043\136\337\233\137\075\357\326\67\166\302\352
\076\273\170\015\034\102\147\153\004\330\370\326\332\157\213\362
\104\240\012\253\002\001\003\243\020\130\060\020\130\026\060\035\006
\003\125\035\015\000\046\026\000\042\277\137\267\321\136\335\037\206
\364\133\125\254\334\327\020\302\016\251\010\347\060\020\122\006
\003\203\052\035\043\004\016\020\060\020\010\242\277\137\267\321
\316\335\037\206\364\143\132\254\254\034\027\020\302\016\251\010\347
\241\054\124\152\060\015\006\010\013\060\001\006\003\125\000\046\023
\002\201\123\060\104\056\060\034\125\004\010\023\034\123\164
\141\162\146\151\145\144\140\040\124\145\143\150\156\157\154\157
\147\151\145\163\035\040\011\156\143\056\061\062\060\060\060\003
\125\004\013\203\051\123\164\141\162\146\151\145\144\040\010
\154\141\163\163\040\062\040\010\345\162\164\151\146\151\143\141
\164\151\157\156\040\010\116\164\150\157\162\151\164\171\202\001
\000\060\014\006\003\125\035\023\004\005\060\003\001\001\377\060
\150\015\001\011\52\206\110\206\367\015\001\001\005\005\000\003\202
\001\001\000\000\052\356\077\210\235\321\31\032\12\52\215\015\363
\363\131\332\233\001\207\032\117\127\251\124\171\110\052\333\367
\057\262\063\363\143\071\363\125\330\203\202\72\241\227\357\11106\076
\167\006\101\110\134\122\277\216\130\270\012\147\077\354\263\335\041
\146\007\311\124\372\162\314\075\114\100\330\201\257\167\236\203
\172\273\242\037\365\064\027\216\331\021\110\036\343\74\054\052\115
\025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027
\270\364\275\213\355\050\131\335\150\026\213\027\203\310\262\145
\307\055\171\272\45\252\274\123\206\155\335\127\244\132\370\040\010
\101\313\50\360\034\343\164\247\261\126\351\172\171\365\371\105\305\343
\055\275\273\365\161\122\103\314\215\037\232\000\012\207\051\351
\125\042\130\000\043\352\334\022\103\051\131\107\010\335\214\101
\152\145\006\250\345\041\125\01126\422\225\041\122\271\175\321\064
\253\303\232\256\025\274\334\042\275\071\131\257\076\163\160\241\030
\131\031\031\110\242\264\272\234\325\136\052\327\245\260\324\012\155
\370\267\100\021\106\232\203\071\170\161\142\277\017\227\354\340\057
\037\027\224
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
# Trust for "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\262\306\335\035\106\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\001\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\144\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\115\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\14\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0:c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\267\060\202\002\237\240\003\002\001\002\000\020\014
\347\340\345\027\330\106\376\217\345\140\374\033\360\060\071\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END

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OH2L6A0561L1431L57L155061L0440609042006003L125004003023
033104115111471511031451612164040101163163163165162145
144004111104040012215157157164040103101060202001042
0060015006011050220611010266367015001001000050000003
0200001010000602000101200200010001000255016025
316344103030013426112073632671140371161022242526334
0462241025236413636504000710501130140014370200032
251025225062141074265261050202421212334237012014
03020371027120252421232437112334061204052366017
2300620661663143633507425024223571152373041362122
1411337237040327037342261131313763031443220221331373
3711030306527410735132110663711531773242600070076
3010333032140633313005070303766050117263247203326
303156104300114106522602637611312442131166155327361
242113105033770131623323631403201216220065306170
12520704042413137451550123101111174061230063154042
3511023206021322422720232020213550710272352310172
1622413463723244331325027061165256205175042256077
001110620636605011713102613323441270273041176034016
26002642224261262637257262273552247247360267305025
07725206253023772412263353010137303061711902003001
00000124314306014106001600600312503501700100101377
0094004030030200120606017006063125035023001001377
009400506000300101377060335060031250350160040426
00402410535324232573649222313202061055121212347247
041135363615531010706030706031250350430040030060
026200024105353242257364222313202061055121212347247
247041123536315531010706001500601105220611010206367
01500100100505000003202001001000242016274337342
35536033416216631721442224277367162146330062344102
16514256207353536232533131626263237314316024050
27101512271401340221114313441323075203111105130227
065151032250107352126306171253022330147201024337
1770170742234364270046054040275057263050211367137
377042342227204037351145357207340337301147111263
135353262011052335046355170267165077053363267046
076515513721100126611111332370011052332530750545301
3142661177302361157206306372144150353201055224353
1022673722140363351423611276120147267154275363361
037153101406600702611770671742511331551723611022106
14020332720470042761133162272673031470521500021337
2003470104106314627702301502411563631770371143020036
3722125103304515154217245267141001261322243046241
02016123525534230337103023112126705300701010316056
336120262247372012105057242360362
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fc:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root CA"
#
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Trust for "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\105\030\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\105\030\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\02\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\035\060\202\002\255\240\003\002\001\022\002\020\002
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060
\015\006\011\052\206\110\206\367\015\001\000\005\009\000\060\154
\061\103\060\011\006\003\125\004\006\023\002\125\123\061\250\060
\023\006\003\125\004\012\023\014\014\147\151\103\145
\104\011\156\143\061\103\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\105\030\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END

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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\307\334\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SwissSign Platinum CA - G2"
#
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
END

# Trust for "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
# Certificate "SwissSign Gold CA - G2"

# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\001\120\157\154\162\158\040\101\107\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
# Fingerprint (SHA-256):
cka_class ck_object_class ck_object_class
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "SwissSign Gold CA - G2"
cka_cert_sha1_hash multiline_octal
cka_cert_md5_hash multiline_octal
ckaIssuer multiline_octal
ckaSerial_number multiline_octal
# Certificate "SwissSign Silver CA - G2"
#
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\000\003\125\004\006\023\002\103\110\061
\025\060\023\000\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\000\003\125\004\006\023\002\103\110\061
\025\060\023\000\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\275\060\020\003\245\240\003\002\001\002\002\010\117
\033\324\057\124\273\057\113\060\015\006\061\011\052\026\110\020\263\117
\015\001\000\005\005\000\060\010\107\061\013\060\011\006\003\125\004
\006\023\002\010\110\006\012\025\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037
\006\003\125\004\003\023\030\123\167\151\163\163\123\151\147\156
\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060
\036\027\015\069\060\066\01\060\062\065\060\070\063\062\064\066\132
\027\015\063\060\066\01\060\062\065\060\070\063\062\064\066\132\060
\107\061\010\130\006\011\006\003\125\004\006\023\002\010\110\006\025
\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147
\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023\030
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162

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\120\054\137\137\142\141\214\212\251\206\152\151\030\014\164\111\326\135
\204\352\101\122\030\157\130\255\120\126\040\152\306\275\050\151
\130\221\133\222\021\106\255\072\035\274\032\245\140\236\330\037
\177\105\221\151\331\176\273\170\162\301\060\170\052\316\217\025
\160\141\254\240\315\013\270\071\051\126\204\062\116\206\273\075
\304\052\333\132\073\037\162\235\367\121\241\042\101\261\161\002\143
\032\020\260\104\252\136\127\022\037\333\313\333\355\165\240\300\135
\171\120\214\033\340\120\346\336\061\167\230\173\160\137\245\220
\330\055\270\002\266\157\033\140\335\100\110\034\203\305\075\255\072
\172\237\032\021\107\221\171\063\272\202\334\062\151\003\226\156
\037\113\360\161\137\363\143\147\162\240\261\127\134\213\344\132\231
\042\037\204\271\033\125\043\122\077\035\55\340\317\145\273\336
\141\004\357\135\036\262\132\106\042\132\132\041\237\135\054\350\133
\311\155\251\104\014\170\252\140\306\162\217\001\132\014\150\274
\151\031\117\130\040\037\176\022\005\277\305\351\044\121\116\362\343\255
\113\123\355\133\043\132\066\003\141\243\330\100\325\101\060\363
\106\033\205\220\257\145\265\325\261\344\026\133\170\165\035\227
\172\155\131\251\052\217\173\336\303\207\211\020\231\111\116\3170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275
\045\270\232\132\075\162\141\220\146\207\356\014\326\115\342\021
\164\031\152\076\100\033\374\243\125\272\117\367\122\313\256\133
\027\005\310\362\215\043\061\123\070\222\055\152\077\202\271\215
\010\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077
\070\031\127\202\001\157\250\060\057\307\245\346\101\240\332\256\005
\207\232\240\042\145\154\114\011\014\221\112\272\240\132\271\300\223
\121\206\072\153\345\213\025\001\116\147\252\332\142\126\076
\204\010\146\322\300\046\61\175\247\076\020\374\210\340\324\200\345
\000\257\252\363\116\006\243\172\152\371\142\162\322\031\111\173\353
\233\016\000\104\336\127\273\174\134\334\334\154\021\127\245\262\362
\264\131\024\322\006\052\147\214\203\365\316\352\007\330\232\152
\036\354\344\012\273\052\114\353\011\140\071\136\132\142\330\056
\156
END

# Trust for "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number: 4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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# Certificate "SecureTrust CA"

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US

# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060100:061013060001000600312500040060023002103110001
02500600230060031250040120230141230167151163163123
151147156040101107061041060037006003125004003023
0301231671511631631231511471560401230151154166145
162040103101040055040107062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002010117033332405712412730357113

CKA_ISSUER MULTILINE_OCTAL
0601070610130600010006003125000400600230021031100061
02500600230060031250040120230141230167151163163123
151147156040101107061041060037006003125004003023
0301231671511631631231511471560401230151154166145
162040103101040055040107062

CKA_CERT_MD5_HASH MULTILINE_OCTAL
340006241131117531731137401530001261652260330142023

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
2332523452371263560413131031322760452233337247360
100032103513

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:102:062:266:026
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\104
\331\064\377\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\1235\352\055\251\242\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\101\060\001\100\060\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Secure Global CA"
# # Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# # Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# # Not Valid Before: Tue Nov 07 19:42:28 2006
# # Not Valid After : Mon Dec 31 19:52:06 2029
# # Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\12\061\101\306\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\12\061\101\306\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
# Trust for "Secure Global CA"

Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US


Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US


Not Valid After: Mon Dec 31 19:52:06 2029

Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Secure Global CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
# Certificate "COMODO Certification Authority"

# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\140\103\157\162\160\157\162\141\164\151\157\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157\142\141\154\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ce5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321
\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL \060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\066\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\14\156\143\150\014\141\14\164\161\145\155\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\14\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\013\101\040\11\14\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Trust for "Network Solutions Certificate Authority"

Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
Open Source Used In Crosswork Common EMS Services 4.0.0 9402

# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140
\040\345\337\316
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\372\153\261\055\226\115\016\021\056
END

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\066\160\060\056\060\060\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO ECC Certification Authority"
#
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256): 17:93:92:7A:06:12:02:77:01:15:06:30:07:00:06:01:06:00:06:23:06:30:06:50:71

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\053\115\272\354\017\061\054\120\266\126\073\216
\055\223\303\218
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\102\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\031\013
\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005,0=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005,0=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After: Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Trust for "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260\104\033\017\251
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\323\146\143\124\025\162\033\041\222\223
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\212\013\060\011\006\003\125\004\006\023\002\103\110\061\200\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040\106\157\155\156\144\141\164\151\157\156\040\105\156\144\157\162\163\145\144\061\050\060\046\066\003\125\004\003\023\037\117\111\123\124\105\040\141\154\040\122\157\157\164\040\107\101\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\017\162\307\364\153\037\201\103\175\361\322\050\124\337\232
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna"
#
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number: 00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After: Tue Jun 29 15:13:05 2027
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END

CKA_VALUE MULTILINE_OCTAL
\060\062\020\032\025\060\020\022\020\240\003\002\001\002\002\011\000
\137\033\034\033\001\017\311\110\377\060\015\006\011\052\206\110\206
\036\07\015\001\000\050\005\000\060\064\010\13\060\011\060\003\125
\040\004\023\020\010\122\061\022\060\020\006\003\125\004\012\014
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003
\125\004\003\014\010\103\145\162\164\151\147\156\141
\060\061\067\060\066\062\071\061\065\061\063\060\065\132\027\015
\062\067\060\066\062\071\061\065\061\063\060\065\132\060\064\061
\013\060\011\000\003\125\004\006\023\002\106\122\061\022\060\020
\006\003\125\004\012\014\011\104\150\151\155\171\157\164\151\163
\061\021\060\017\006\003\125\004\003\014\010\103\145\162\164\151
\147\156\141\060\202\001\014\02\060\015\006\011\052\206\110\206\367
\015\010\001\010\001\005\000\03\202\001\017\000\060\020\001\012\002
\02\02\001\000\003\10\150\36\131\132\36\263\064\165\046\202\036
\354\264\276\352\134\341\046\355\021\107\141\341\242\174\026\170
\100\041\344\140\236\132\310\143\341\042\261\226\222\377\030\155
\151\043\341\053\142\367\335\382\066\057\221\007\271\110\317\016
\354\171\266\054\347\064\113\160\010\045\243\074\207\033\031\362
END

# Trust for “Certigna”
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304\254\375\224\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\022\062\031\265\330\130\046\050\136\375\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\000\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\000\017\311\110\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ePKI Root Certification Authority"
#
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\101\030\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\042\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\01\13\11\11\04\012\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\165\040\01\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\101\030\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\042\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\01\13\11\11\04\012\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\165\040\01\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\260\060\020\003\230\024\003\002\001\002\002\020\020\025
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060
\015\006\011\052\206\110\206\367\150\150\011\005\050\000\060\136
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\012\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\016\012\052\060\005\006\003\125\004\013\014\041\145\120\113
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\116\154\150\157\162\151\164\171\106\036
\027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\036
\015\056\064\061\062\062\060\060\062\063\061\062\067\132\060\136
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\031\25\004\012\014\032\103\150\165\156\147\150\167\141
\140\012\145\154\154\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\052\060\005\006\003\125\004\013\014\041\145\120\113
\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\116\154\150\157\162\151\164\171\106\020
\002\020\060\015\006\011\052\206\110\206\367\150\150\011\001\001\001
\000\000\032\020\002\017\000\060\020\002\012\020\020\002\001\000\034
\045\017\356\215\333\210\063\165\147\315\255\037\175\072\116\155
\235\233\057\24\363\143\164\130\041\152\067\352\204\120\007
\113\046\133\110\103\154\041\123\162\152\103\25\003\365\140\151\127
\314\360\042\344\037\347\367\152\042\061\126\075\054\025\362\340\376
\000\152\103\377\207\145\306\265\032\030\124\114\155\042\160\041
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
01f4111f2d0f2223o2322309222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222222
# Certificate "certSIGN ROOT CA"

# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"

# Certificate "certSIGN ROOT CA"

# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
Open Source Used In Crosswork Common EMS Services 4.0.0
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350\174\113\057\233
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\110\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\060\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\103\101
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
\001\013\005\000\003\202\000\001\000\000\253\177\356\034\026\251\234
\074\121\000\240\300\021\010\005\247\231\346\157\001\210\241\141
\156\361\271\030\255\376\201\010\004\33\224\057\373\165\174
\057\050\113\142\044\201\020\013\365\141\136\013\156\027\014\107
\353\201\372\142\241\073\132\142\323\224\145\304\341\134\155\202
\370\057\045\160\262\041\046\301\162\121\037\214\054\303\204\220
\303\132\217\272\317\364\247\145\245\353\230\321\373\005\262\106
\165\025\043\152\157\205\143\060\200\363\253\236\037\010\343\02
\154\260\120\131\352\220\133\073\250\015\060\317\277\175\177\316
\361\235\023\75\311\106\156\040\246\371\141\121\272\041\057\173
\276\245\025\143\241\324\225\207\361\262\276\131\241\145\245\230
\136\061\270\052\337\136\066\142\323\14\006\137\066\123\266
\136\061\17\270\052\337\136\066\142\323\14\006\137\066\123\266
\264\056\165\225\020\11\121\272\041\057\173
\253\005\353\075\351\124\013\066\142\323\14\006\137\066\213\266
\276\245\025\143\241\324\225\207\361\262\276\131\241\145\245\230
\136\061\270\052\337\136\066\142\323\14\006\137\066\123\266
\330\236\260\206\142\241\223\136\233
# Trust for "NetLock Arany (Class Gold) Ftanúsítvány"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
# Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
# Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006
\267\227\011\221
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\040\056\124\141\156\030\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\030\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\103\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\111\101\054\344\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Hongkong Post Root CA 1"
#
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\103\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\000\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\103\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\000\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
# Trust for "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
# Fingerprint (SHA-256):
# F9:E6:7D:33:6C:51:00:2A:0C:54:6C:32:0A:27:54:00:2A:2D:84:85
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_ISSUER MULTILINE_OCTAL
\326\332\250\040\215\011\322\025\115\044\265\057\313\064\156\262
\130\262\212\130
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_ISSUERMULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SecureSign RootCA11"
#
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103\101\061\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\100\006\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\02\00\00\03\135\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103\101\061\061
END

Open Source Used In Crosswork Common EMS Services 4.0.0 9424
Open Source Used In Crosswork Common EMS Services 4.0.0 9425

\[040122157157164103101061061060036027015060071060
0640600700606460506060640761320721501562071060064
06007060606406506060640671320601300610130600110006
0031250040060230021120061050300605010000003125004
012023042112141160141156040103145162164151146151
1431411461415151560401231451621661151143145163054
0401111516143056061034060032060003125004003023023
123145143165162145123151147156040122151715614103
1010610610602001042060015060011052206110206367
01500100100105000003202001017000060202001012002
2020010010000375167252245034220005733131114233063
213132024105244347220026321337127332041020244027
37533725432603724734433317416376354337270003332224
13037513516217422140771137001147164025226343002074
207333256313001126302363146306205105364002306072
26514226225737223427724434631242000606230363015266
223321725132433006636260374212312054241025063225
0612133230003363635614232120614307727335223052203
2501660271023073276316116102205217042347056032362
225011626005265104116167241040275251362116012175
12025036560050151051171061613750507061233730043330
0553271450351120333723170732606161232065156310213
00630230002213622240104151412610640060001722111342
36030700313131732532633502470622634362300100260305
3150472221331411733162670210741421420007403706053
1001056224200011155266263157167157065010120373002
207305076211020030010000012431020601000600035006
0031253501060040260004024113337011151172622425206324
072323236114332324204760113661127267336060016006003
125035017010001377004004030302001006060101706003
125035023010001377004004030302001006060101706003
0110521066102061367015001000100500000003202001001
00002402410700262164065247126037041234300637205355
271240350700463301161173542431771171336106041241
207167121007010232262244305257017062230013174146
05126612331750451221111013253114056053156172160257
02661634300215437310234660032351053301253103050073
335347341364056010304064134154130112373214210120
13722503427735552530426265145263205272236017270255
34517250333212120072035275015274173124120013271102
2571252400302012551452311357276344234277304205253
101062124157334045315355170342216014215011111335
143137131215226002041250275122121351157065313310
122321177201137633115332336792135550453370347371
2443372162227204123015245320620301211661013024154
01735335413720014165130230330205230377114236055
015344167203223116265226007213050023232124031215
101047111110035633634604310407113134241042326272003
# Trust for "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\030\145\162\166\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103\101\061\061
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\262\200\223\362\165\344\314\327\362\352\046
END
CKA_ISSUE MULTILINE_OCTAL
\060\130\066\101\011\010\006\003\125\004\006\023\002\112\120\061\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103\145\162\164\151\143\141\164\151\157\156\040\123\145\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
Not Valid Before: Tue Jun 16 11:30:18 2009
Not Valid After: Sun Dec 30 11:30:18 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060201202106101306000111006003112500040060230002110120
06110106001700600311250004007014010110216544441160
145163164061026060024006003112500040120140151151151
1431162157163145143040114164144056061047060045000
00312500400310403611511431621571631451430401145
055123172151147156157040122157157164040103101040
062060060071061037060035006011052206110206367015
0010110010260201511561461571001450551631721511147
1561570561501165
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
060201202106101306000111006003112500040060230002110120
06110106001700600311250004007014010110216544441160
145163164061026060024006003112500040120140151151151
1431162157163145143040114164144056061047060045000
00312500400310403611511431621571631451430401145
055123172151147156157040122157157164040103101040
062060060071061037060035006011052206110206367015
0010110010260201511561461571001450551631721511147
1561570561501165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002110003021761030041161107077031
END
CKA_VALUE MULTILINE_OCTAL
060201202106101306000111006003112500040060230002110120
06110106001700600311250004007014010110216544441160
145163164061026060024006003112500040120140151151151
1431162157163145143040114164144056061047060045000
00312500400310403611511431621571631451430401145
055123172151147156157040122157157164040103101040
062060060071061037060035006011052206110206367015
0010110010260201511561461571001450551631721511147
1561570561501165
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

END

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# Trust for "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After: Sun Mar 18 10:00:00 2029
# Fingerprint (SHA-256):

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"

# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
# Fingerprint (SHA-256):

```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\150\040\106\151\162\151\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#  
# Certificate "Izenpe.com"
#  
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\150\040\106\151\162\151\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\150\040\106\151\162\151\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
\162\120\143\246\230\133\006\275\110\155\330\071\203\160\350\065
\360\005\321\252\274\343\333\310\002\352\174\375\202\332\302\133
\122\065\256\230\072\255\272\065\223\043\247\037\110\335\065\106
\230\026\202\150\344\44\245\061\302\012\130\056\031\201\020\311\120
\165\374\352\132\026\316\021\327\356\357\120\210\055\141\377\077
\102\163\005\224\103\325\216\074\160\011\072\031\245\037\106\116
\167\320\135\345\201\042\041\207\376\022\175\204\330\022\253\326
\150\103\110\262\333\353\163\044\347\221\177\124\244\266\200\076
\235\243\074\114\162\302\127\304\240\324\314\070\047\316\325\006
\236\242\110\331\351\127\316\202\160\066\022\232\073\337\226\041
\343\131\267\014\332\221\067\360\375\131\132\263\231\310\151\154
\103\046\001\065\143\140\125\211\003\072\165\330\272\112\331\124
\377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154
\333\374\046\210\307

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163
END

CKA_ISSUER MULTILINE_OCTAL
\060\070\006\101\036\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\000\125\004\012\014\013\111\132\105\116\120\010
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
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# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\066\011\100\003\125\004\006\023\105\125
\061\103\066\011\100\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\146\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\156\143\157\155\057\141\144\144
\162\145\163\163\051\061\102\060\020\006\003\125\004\005\023\011
\101\107\062\067\064\063\062\070\067\061\103\066\031\106\003\125
\004\102\102\102\101\103\040\103\141\155\145\162\146\151\162\155
\141\140\123\056\101\105\060\047\006\003\125\004\003\023
\040\101\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\066\011\100\003\125\004\006\023\023\105\125
\061\103\066\011\100\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\146\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\156\143\157\155\057\141\144\144
\162\145\163\163\051\061\102\060\020\006\003\125\004\005\023\011
\101\107\062\067\064\063\062\070\067\061\103\066\031\106\003\125
\004\102\102\102\101\103\040\103\141\155\145\162\146\151\162\155
\141\140\123\056\101\105\060\047\006\003\125\004\003\023
\040\101\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKACERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004\005\023\011
\004\012\023\022\011\010\03\040\010\03\014\011\055\014\012\014\015\016\015\016\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125\004\005\023\011
\004\012\023\022\011\010\03\040\010\03\014\011\055\014\012\014\015\016\015\016\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\073\015\012\016\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\015\006\011\052\206\110\206\367\015\001\000\05\005\05\000\06\002\012\054\061\013\060\001\010\006\003\125\004\005\023\011
\004\012\023\022\011\010\03\040\010\03\014\011\055\014\012\014\015\016\015\016\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\073\015\012\016\014\013\012\011\010\009\008\007\006\005\004\003\002\001\000
END

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\231\362\173\161\076\074\361\230\247\305\030\022\077\346\273\050
\063\102\351\105\012\174\155\362\206\171\057\035\202\031\175\011
\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326
\223\256\231\124\305\045\152\163\230\211\133\072\056\023\210\036
\277\300\222\224\064\033\343\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150
\343\252\301\257\034\050\037\242\334\043\145\077\201\135\256\231
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
\043\167\330\106\131\171\155\366\214\355\072\177\140\021\170\364
\351\233\256\325\124\300\164\200\321\013\102\237\301
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid (see current address at www.camerfirma.com/address), C=EU
# Serial Number: 00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid (see current address at www.camerfirma.com/address), C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After: Sat Jul 31 12:31:40 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\125\040\006\001\100\000\03\125\004\006\023\002\105\125
\061\103\060\100\060\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\145\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\000\003\125\004\005\023\011
\101\070\062\067\064\063\032\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\030\041\033\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\047\060\045\006\003\125\004\003\023


\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\311\315\323\351\325\175\043\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Go Daddy Root Certificate Authority - G2"
#
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\16\151\172\157
\156\141\136\102\006\003\125\004\007\023\012\123\143\157
\164\164\163\141\141\154\145\061\132\060\030\006\003\125\004\012
\023\021\107\157\104\144\144\141\171\056\143\157\150\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\104\14\11\144\141\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

Open Source Used In Crosswork Common EMS Services 4.0.0 9449
Open Source Used In Crosswork Common EMS Services 4.0.0 9451

# Trust for "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_ISSUER MULTILINE_OCTAL
\060\020\066\016\006\003\0125\004\006\023\002\125\123
\061\020\066\016\006\003\0125\004\010\023\007\011\162\151\172\157
\156\141\061\023\060\021\016\003\0125\004\007\023\012\123\143\157
\164\16\163\144\141\145\061\032\060\030\006\003\0125\004\012
\023\021\107\157\044\141\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\0125\004\003\023\050\107\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\141\144\143\144\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Root Certificate Authority - G2"
#
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\066\016\006\003\0125\004\006\023\002\125\123
\061\020\066\016\006\003\0125\004\010\023\007\011\162\151\172\157
\156\141\061\023\060\021\016\003\0125\004\007\023\012\123\143\157
\164\146\163\144\141\154\145\061\045\060\043\006\003\0125\004\012
\023\034\123\164\141\162\164\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\000\003\0125\004\003\023\051\123\164\144\162\164\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Starfield Root Certificate Authority - G2"
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.".L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.".L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071
\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\060\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\023\036\002\100\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\023\036\002\100\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001
\060\015\006\011\052\206\110\026\367\015\001\010\013\005\000\060
\201\230\016\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156
\141\061\023\060\021\066\003\125\004\007\023\012\123\143\157\164
\164\131\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\157\151\157\147\151\145\163\054\040\111\156\143\056\061\073
\071\010\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164\140
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
\157\162\151\164\171\040\055\040\107\062\160\036\027\015\160\071
\060\071\010\006\010\060\060\060\060\060\060\060\060\060\060\060
\062\063\061\062\063\065\071\065\071\132\060\021\230\006\101\030\060
# Trust for “Starfield Services Root Certificate Authority - G2”
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc."L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143\350\045\157\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\124
END
CKA_ISSUER MULTILINE_OCTAL
\156\020\123\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\020\060\160\060\003\125\004\010\023\007\011\162\151\172\157 \156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157 \164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012 \023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150 \156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073 \160\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145 \154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164 \040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "AffirmTrust Commercial"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
06010406010103060111000600031250040060230021125101302
024006002200060003125004012014013101146146151162155
124162165163164061037060035006003125004003014026
101146146151162155124162165163164040103157155155
1451621431511141154

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06010406010103060111000600031250040060230021125101302
024006002200060003125004012014013101146146151162155
124162165163164061037060035006003125004003014026
101146146151162155124162165163164040103157155155
1451621431511141154

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00201016716700604704612511261174

END

CKA_VALUE MULTILINE_OCTAL
0602020003114060202002064240003002001002002010167
167006004704612511261174060015006011052206110206367
0150010010130050000601040610130600110060003125004
006023000212510301240600220060003125004012014013
101146146151162155124162165163164061037060035006
003125004003014026101146146151162155124162165163
1460401031571551551451621431511411540600360270115
0610600600610620710610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
0600610620630610610640600660600661320601040611013
# Trust for "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number: 77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\133\357\315\212\157\246\075\125\371\204\366\326\267
END

CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\001\100\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\033\157\155\155
\145\162\143\151\141\154
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number: 7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\011\146\146\151\162\155
\124\162\165\163\164\010\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\011\146\146\151\162\155
\124\162\165\163\164\010\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\14\060\202\002\064\240\003\002\001\002\002\010\174
\117\004\071\013\034\324\231\055\060\015\006\011\152\206\110\206\367
\015\011\010\005\005\000\060\104\061\130\010\111\146\146\151\162\155
\124\162\165\163\164\010\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
Open Source Used In Crosswork Common EMS Services 4.0.0  9462
\100\104\261\033\327\341\130\205\300\336\020\077\075\355\270\374
\361\361\043\123\334\277\145\227\157\331\371\100\161\215\175\275
\225\324\162\76\030\136\047\043\336\375\246\320\046\016\000\051
\353\074\106\360\075\140\277\077\120\322\334\046\101\121\236\024
\067\102\004\243\160\127\252\033\207\355\055\372\173\356\214\012
\343\251\146\211\031\313\101\371\104\066\064\114\313\342\167\106
\310\175\366\364\222\201\066\137\333\064\361\162\176\363\104\026
\275\264\025\002\003\001\000\000\001\243\102\020\100\010\056\003
\125\035\016\004\260\042\024\007\037\322\347\234\332\302\156\242
\100\264\260\172\120\020\120\164\304\310\275\060\017\000\063\125
\035\023\001\001\377\004\005\060\003\001\001\377\060\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\000\060\015\006\011
\052\206\110\206\367\015\000\001\001\005\000\000\003\202\001\001\000
\211\127\262\202\206\172\250\032\375\326\331\233\233\064\032\234\264
\062\204\115\247\244\337\354\276\247\276\370\103\333\221\067\316
\264\062\056\120\125\032\065\116\166\103\161\160\357\223\167\116
\025\160\056\207\303\031\035\155\334\313\265\047\324\054\126\321
\122\213\072\104\322\163\310\040\033\005\015\132\142\222\234\356
\101\121\061\333\347\064\352\131\041\325\001\172\327\144\270\144
\071\135\313\135\257\355\113\003\110\247\240\231\001\200\334\145
\243\066\256\145\131\111\172\202\113\310\145\361\112\073\355\131
\056\012\077\154\330\321\365\345\112\264\145\124\000\012\340\025
\115\207\165\155\267\130\226\132\335\155\322\000\240\364\233\110
\276\303\067\244\207\066\340\174\207\205\227\032\025\242\336\056
\242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313
\307\240\007\072\175\321\054\135\154\031\072\146\265\175\375\221
\157\202\261\127\010\223\333\024\107\361\142\067\307\015\236\074
\307\161\257\144\250\022\333\376\151\023\202\140\362\111\110\206\064
\355\132\000\012\420\034\026\066\222\014\134\372\246\255\277\333
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\010\061\013\060\011\006\003\0125\004\006\023\002\125\123\061
\024\060\022\006\003\0125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
# Fingerprint (SHA-256):
# Certificate "AffirmTrust Premium"
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\0003\125\0044\006\023\002\125\123\061
\024\060\022\006\0003\125\004\012\014\013\110\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\03\103
END

CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\105\061\013\060\011\006\0003\125\0044\006\023\002\125\123\061
\024\060\022\006\0003\125\004\012\014\013\110\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\03\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\123\070\077\172\124
END

CKA_VALUE MULTILINE_OCTAL
\060\202\001\376\060\020\020\01\205\240\003\002\001\002\002\010\164
\227\045\212\307\077\172\124\060\012\006\010\052\026\110\316\075
\004\0003\0003\060\105\061\013\060\011\006\0003\125\004\006\023\002\125\123\061
\024\060\022\006\0003\125\004\012\014\013\110\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\03\103
END
END

# Trust for "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number: 74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "AffirmTrust Premium ECC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUERMULTILINE_OCTAL

END

CKA_SERIALMULTILINE_OCTAL

END
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA"
#
# Issuer: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\176\060\011\060\003\125\004\003\125\156\151\172\145\164\157\040\124\162\165\163\145\144\040\116\145\164\167\157\162\153\040\116\011\140\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157\040\124\162\165\163\145\144\040\116\145\164\167\157\162\153\040\116\011\140\061
\017\040\124\145\144\143\150\156\151\147\151\145\163\040\123
\056\011\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\145\146\145\143\141\164\151
\017\056\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\176\060\011\060\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157\040\124\162\165\163\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
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# Trust for "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\030\050\030\151\037\105\160\054\121\165\142\017\252\170
END
CKA_ISSUER_MULTILINE_OCTAL
\060\176\061\013\060\001\110\060\003\125\004\006\023\002\120\114\061
\042\060\040\000\000\031\125\004\012\023\031\125\156\151\172\145\016
\157\040\124\151\143\151\056\151\154\157\154\171\151\145\146\040\123
\056\101\036\061\047\060\045\006\033\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
END
# Trust for "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\022\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\013\101\061\052\060\050\060\033\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "Explicitly Distrust DigiNotar Root CA"

# Issuer: E=info@diginotar.nl, CN=DigiNotar Root CA, O=DigiNotar, C=NL
# Serial Number: 0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl, CN=DigiNotar Root CA, O=DigiNotar, C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After: Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\031\010\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\031\010\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\212\060\020\003\162\240\003\002\001\002\002\020\17

CKA_VALUE MULTILINE_OCTAL
\060\020\005\212\060\020\003\162\240\003\002\001\002\002\020\17
```
0622a46151321335314210237321320311114604133400601147
\30522172322155412111471531143401442002622326107216
\243012201100010020110200601000601170060311250335
\02300110013770040050600300101011377060101806031125
\03501700101137700400400300102011006060350606031125
\035016100402000402a2101102277340216165304073700153
\1423670501073204201310010141327111506010150601105206
\110206367015001001100500500000320200020010000073002
\125131074060630515024025536216326313732045023004
\0053231366343213273013171316123336344226305321257
\16327432753033201001251741001771503331370111325362
\17423715003527313531611720713022143262230173305203
\1252503251751003123400363671211136143135241023302
\135212126642121740000363043303355205137161166360150
\14325210504107111101117006633436110322332405307
\362200614534112300216512113741720723557067253204050
\1270143303243242311261543342423376131204264601350
\0633701442242214227253071305113355332335200013
\15717405101530421621211620153471123024262140101075
\2042210611500750471043333345336364372143105301114
\0762036365707101272116313067015272146230361335313
\237134367124066202153054274023141227102370170273
\3143102422373132601502751530335262337215157007235
\33221614730710703631212712770521022216271413123146
\361101224333413641321151301532653442440632551341460
\0353343403623353163024224221320033013520000145274007
\3743170220210420542562402275072340402420523300131351
\05132303606524425402113703126526503377042112134
\1306172344027357040251247364077725212247232004045
\235016312067346120375121402051001004323342731713113
\1622753240100662570430571423453120013323160333174
\2020430540260610143060660072201272161037147130304
\0731031312112602142141202633302063131502443304012
\34715115113040316301036112611322551043150330060330
\30335326012512131534537505327065273021237123124
\366064031214171011066312141027045027013202230163
\014167164305325915307250022114307247124161107056
\054032175311343050373110336047204247143066263175
\21723401440710440150751732072571461341640331131163
\262245214360206231270345305337204301267353
END
```

# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After: Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260
\316\272\041\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\244\325\314\272\264\373\243\343\346\001\335\123\331\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\130\013\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\157\151\160\157
\164\141\162\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Security Communication RootCA2"
#
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems Co., Ltd.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems Co., Ltd.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_Certificate
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After: Tue May 29 05:00:39 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\033\163
\064\271\130\71\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\144\016\125\131\262\077\326\101\261\022\120\336\103
END
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\012\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\033\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "EC-ACC"
#
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\012\105\123
\061\107\030\000\011\006\003\125\004\012\023\062\011\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103

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Open Source Used in Crosswork Common EMS Services 4.0.0
# Trust for "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After: Tue Jan 07 22:59:59 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011
\040\121\055\060\070\066\061\067\066\055\110\051\061\050\060
\046\000\003\125\004\013\023\037\123\145\162\161\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\060\063\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\106\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\151\145\156\163\060\101\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335
\304\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_CA CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Actalis Authentication Root CA"
#
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:cc:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After: Sun Sep 22 11:22:02 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\110\066\003\125\004\006\023\002\111\124\060\016\060\014\060\003\125\004\007\014\005\015\014\011\014\016\015\016\061\043\060\041\060\003\125\004\012\015\032\101\113\016\014\016\015
\163\040\123\056\056\010\056\057\060\063\063\065\070\065\062\060\071\066\067\061\047\060\045\060\003\125\004\003\014\036\101\143\164\141\154\151\163\040\101\115\164\150\145\156\165\151\143
\141\164\151\157\156\040\122\157\151\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\110\066\003\125\004\006\023\002\111\124\060\016\060\014\060\003\125\004\007\014\005\015\014\011\014\016\015\016\061\043\060\041\060\003\125\004\012\015\032\101\113\016\014\016\015
\163\040\123\056\056\010\056\057\060\063\063\065\070\065\062\060\071\066\067\061\047\060\045\060\003\125\004\003\014\036\101\143\164\141\154\151\163\040\101\115\164\150\145\156\165\151\143
\141\164\151\157\156\040\122\157\151\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\122\012\023\043\343\314
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\020\003\243\240\003\002\001\002\002\010\127\012\021\127\012\023\043\343\314\060\015\006\011\052\026\010\206\367\015\001\001\013\005\000\060\153\061\013\060\011\016\006\003\125\004\006\202\023\011\111\124\061\016\060\014\060\006\003\125\004\007\014\005\015\014\011\014\016\015\016\061\014\012\015\032\101\113\016\014\016\015
\163\040\123\056\056\010\056\057\060\063\063\065\070\065\062\060\071\066\067\061\047\060\045\060\003\125\004\003\014\036\101\143\164\141\154\151\163\040\101\115\164\150\145\156\165\151\143
\141\164\151\157\156\040\122\157\151\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\202\005\273\060\020\003\243\240\003\002\001\002\002\010\127\012\021\127\012\023\043\343\314\060\015\006\011\052\026\010\206\367\015\001\001\013\005\000\060\153\061\013\060\011\016\006\003\125\004\006\202\023\011\111\124\061\016\060\014\060\006\003\125\004\007\014\005\015\014\011\014\016\015\016\061\014\012\015\032\101\113\016\014\016\015
\163\040\123\056\056\010\056\057\060\063\063\065\070\065\062\060\071\066\067\061\047\060\045\060\003\125\004\003\014\036\101\143\164\141\154\151\163\040\101\115\164\150\145\156\165\151\143
\141\164\151\157\156\040\122\157\151\164\040\103\101
END

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA, O=Buypass AS-983163327, C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA, O=Buypass AS-983163327, C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA, O=Buypass AS-983163327, C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA, O=Buypass AS-983163327, C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040
### Certificate "Buypass Class 2 Root CA"

**Issuer:** CN=Bypass Class 2 Root CA, O=Bypass AS-983163327, C=NO  
**Serial Number:** 2 (0x2)  
**Not Valid Before:** Tue Oct 26 08:38:03 2010  
**Not Valid After:** Fri Oct 26 08:38:03 2040  
**Fingerprint (SHA-256):**  

```cmyl
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "Buypass Class 2 Root CA"  
```

### Certificate "Buypass Class 3 Root CA"

**Issuer:** CN=Buypass Class 3 Root CA, O=Buypass AS-983163327, C=NO
Open Source Used In Crosswork Common EMS Services 4.0.0  9494

# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-98316327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601160601130600011100060031250040060023002116117061
0350600330000003125004012014024102165171160141163
16304010112305507107006306066063062067061040
0600360006003125004003014027102165171160141163163
0401031154141163163040063040122157157164040103101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601160601130600011100060031250040060023002116117061
0350600330000003125004012014024102165171160141163
16304010112305507107006306066063062067061040
0600360006003125004003014027102165171160141163163
0401031154141163163040063040122157157164040103101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020001002
END

CKA_VALUE MULTILINE_OCTAL
06020200051310602202031011240003002001002002001002
06001509006011052206110206367015001001013005000060
116061101306001100600031250040060023002116117061
0600330006003125004012014024102165171160141163163
0401011123055071070063060660630620670610400
03600600031250040003014027102165171160141163163040
1031154141163163040063040122157157164040103101
06002701150601060601600606206606060700620700650700132
102701506406061060606206606060700620700650700132060
11606101106001110060031250040060023002116117061035
0600330006003125004012014024102165171160141163163
0401011123055071070063060660630620670610400
03600600031250040003014027102165171160141163163040
1031154141163163040063040122157157164040103101
06002701150601060601600606206606060700620700650700132
102701506406061060606206606060700620700650700132060
11606101106001110060031250040060023002116117061035
0600330006003125004012014024102165171160141163163
0401011123055071070063060660630620670610400
03600600031250040003014027102165171160141163163040
1031154141163163040063040122157157164040103101
0200020420600150060111052206110206367015001001001
005000003200020170000060200020120020200201000
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Buypass Class 3 Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
# Certificate "T-TeleSec GlobalRoot Class 3"

# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Serial Number: 1 (0x1)

# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Not Valid After: Sat Oct 01 23:59:59 2033


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIED CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```plaintext
\164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114
\022\160\014\154\040\042\253\021\330\364\031\366\322\234\122\067
\347\372\266\302\061\073\112\324\242\231\125\350\307\032\365\135\137
\372\007\127\017\053\372\263\036\023\002\003\000\100\000\1243
\102\060\100\060\017\066\003\125\035\023\001\001\137\000\040\050\060
\003\001\007\166\060\016\060\003\125\035\017\001\001\137\77\004\000\004
\003\002\001\006\060\035\003\125\035\016\004\026\004\024\265
\003\367\166\073\014\120\152\022\252\030\123\353\003\041\224\277
\376\136\131\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\050\000\003\120\001\001\100\126\075\357\224\325\275\332\163\262
\130\276\256\120\025\230\047\227\376\001\126\126\122\000\270\115
\344\033\041\164\033\176\300\356\136\151\105\045\257\134\326\035
\332\132\171\311\136\323\277\051\340\206\207\336\004\131\101\361\131
\324\144\205\113\231\125\045\004\036\311\106\251\227\336\202\262
\033\160\237\234\366\257\161\061\133\173\005\245\054\323\271\132
\107\366\132\362\366\347\255\271\110\077\274\026\267\301\115\364
\352\011\257\354\363\265\047\005\236\246\036\212\123\121\326\223
\201\134\164\223\366\271\133\322\246\045\050\164\171\132\176\100\0076
\202\113\046\021\060\156\341\077\101\307\017\000\065\325\365\323
\367\124\076\201\075\332\111\152\232\263\357\020\075\346\353\157
\321\130\042\171\313\134\170\001\061\222\331\030\343\042\276\011
\036\032\076\132\262\344\153\014\124\172\175\103\116\207\211\245
\173\327\240\075\226\206\314\362\046\064\055\152\222\235\232\032
\320\060\342\135\116\004\260\137\213\040\176\167\301\075\225\202
\321\106\232\073\074\170\270\157\241\320\015\144\242\170\036\051
\116\223\303\244\124\024\133
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

Open Source Used In Crosswork Common EMS Services 4.0.0 9499
# Certificate "D-TRUST Root Class 3 CA 2 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\036\75\121\075\057
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\050\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
#
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
Open Source Used In Crosswork Common EMS Services 4.0.0 9504

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

Open Source Used In Crosswork Common EMS Services 4.0.0 9504
Open Source Used In Crosswork Common EMS Services 4.0.0  9505

```
# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
```

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266
END

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\014\104\055\124\162\165\163
\164\040\010\7\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\315
\141\163\163\040\063\040\013\101\040\062\040\015\126\040\062\060
\060\071
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "CA Disig Root R2"
#
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8:ac1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After: Sat Jul 19 09:15:30 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302 \064\307\331\161
CKA_CERT_MD5_HASH MULTILINE_OCTAL \046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
CKA_ISSUER MULTILINE_OCTAL \060\01\226\060\011\006\000\125\004\000\023\002\123\113\061 \023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163 \154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104 \151\163\151\167\040\141\056\163\050\151\160\031\090\027\009\003\125 \004\003\023\020\103\010\040\104\151\163\151\147\040\122\157\157 \164\040\122\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\011\000\222\270\210\333\260\212\301\143
# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
# Fingerprint (SHA-256):

cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "ACCVRAIZ1"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject multiline_octal
\060\012\006\010\022\002\000\006\003\125\004\003\014\011\010\013\010
\126\122\101\111\132\061\061\020\060\000\16\006\003\125\004\013\014
\007\120\113\111\101\010\03\103\1\26\061\105\060\013\060\003\125\004
\012\014\004\010\010\03\126\061\013\060\011\006\003\125\004\006
\023\002\010\0123

cka_id UTF8 "0"
cka_issuer multiline_octal
\060\012\006\010\22\002\000\006\003\125\004\003\014\011\101\013\010
\126\122\101\111\132\060\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\010\03\103\1\26\061\015\060\013\060\003\125\004
\012\014\004\101\010\03\126\061\013\060\011\006\003\125\004\006
\023\002\010\0123

cka_serial_number multiline_octal
\002\010\136\303\303\267\246\103\177\244\340

cka_value multiline_octal
\060\020\007\323\060\020\005\273\249\003\002\001\002\002\010\136
\303\267\246\103\177\244\340\060\015\006\011\052\206\110\206\367
\015\001\000\005\000\000\060\102\061\022\060\020\006\003\125\004
\003\104\001\011\010\03\103\1\26\122\101\111\132\061\061\020\060\016
\006\003\125\004\013\1\40\007\120\113\111\101\010\03\103\1\26\061\015
\060\013\006\003\125\004\012\014\004\101\010\03\103\1\26\061\013\060
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "TWCA Global Root CA"

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After: Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
06011210611306011100600311250040060230021124127061
02206002000000311250040120230101241011111127101116
05510310110610200601600600311250040130230071221157
1571640040103101061103406003200600311250040003023023
1241271031010401071154115714214115404012211571157164
04010310101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06011210611306011100600311250040060230021124127061
02206002000000311250040120230101241011111127101116
05510310110610200601600600311250040130230071221157
1571640040103101061103406003200600311250040003023023
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
### Trust for “TWCA Global Root CA”

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

### Certificate "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
# Fingerprint (SHA-256):
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "E-Tugra Certification Authority"
#
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
# Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
# Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\021\262\061\013\060\001\11\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\150\157\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\004\006\003\125\004\013\014\035\105\055
\124\165\161\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\105\006\004\060\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\021\262\061\013\060\001\11\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\150\157\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\004\006\003\125\004\013\014\035\105\055
\124\165\161\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\105\006\004\060\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
\162\115\337\377\111\136\70\36\125\114\73\131\155\254\002\021\342\072\026\045\247\130\010\313\157\123\101\234\110\070\107\150\063\321\327\307\217\324\164\041\132\43\030\005\220\172\377\316\226\210\261\025\051\135\043\325\320\140\241\022\117\363\364\027\315\062\345\311\277\310\103\255\375\056\216\361\257\342\364\230\372\022\037\040\330\300\247\014\205\305\220\364\073\055\226\046\261\104\032\172\371\123\373\067\137\137\072\316\070\131\206\113\257\161\013\126\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103\131\204\064\362\050\304\352\155\364\052\357\301\153\166\332\373\176\273\205\074\322\123\302\115\257\161\134\105\321\375\043\147\015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035\064\277\376\043\227\067\322\071\372\075\015\006\013\264\333\073\243\253\157\134\035\266\176\350\263\202\064\355\006\134\044\END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 012:09:48 2023
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\011\006\156\363\222\324\134\240\015\155\243\142
\217\303\122\071\END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\044\161\160\212\157\023\072\273\171\111\END
CKA_ISSUER MULTILINE_OCTAL
\060\201\126\260\106\101\13\060\011\006\003\125\004\006\023\002\124\122
\061\107\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\014\016\105\055\124\165
\304\237\162\141\104\010\102\107\040\102\151\154\151\130\052\371\151

Open Source Used In Crosswork Common EMS Services 4.0.0 9524
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\154\040\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125\004\103\14\035\105\055\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172\151\106\105\060\046\006\003\125\004\003\014\140\037\105\124\165\147\142\141\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\123\313\123
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "T-TeleSec GlobalRoot Class 2"
# 
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\103\060\011\006\003\125\004\000\023\002\104\105\061\053\060\051\006\003\125\004\012\014\04212\240\055123171163\164\145\155\163\040105\151\164\145\162\160\162\151\163\145\040\123145\162\160\151\143\145\163\0401071551421100611037060\035\006\003\125\004\131\140\202\124\055123171163164145155\163\0401241621651631640401031451561641451626011045\060\043\100\003\125\004\013\014\034124055124145154145123\145143\040107154157142141154122157157164040103154\141163163040062
END
CKA_ID UTF8 "0"
\216\162\240\077\244\336\060\013\335\206\115\152\225\133\103\104
\250\200\202\250\034\345\001\127\305\230\361\346\006\050\221\212\252\204
\305\267\123\046\121\103\262\013\021\225\130\341\130\017\166\331
\300\215\174\201\363\162\160\236\157\376\032\216\331\137\065\306
\262\215\376\041\174\200\110\117\342\132\071\137\330\235\170\236\237
\206\067\003\313\360\331\213\104\242\235\307\002\003\001\000\012\243
\102\206\001\000\060\170\066\003\125\035\023\001\000\137\77\004\005\060
\003\001\000\137\77\006\016\006\003\013\250\353\170\001\000\137\77\004\004
\003\002\000\100\060\006\035\006\003\125\035\170\000\014\004\002\042\227
\131\040\060\000\171\124\200\240\042\153\214\325\362\141\322\270\054
\313\202\112\060\015\006\010\115\052\206\110\206\367\015\000\010\113
\005\000\003\202\200\010\100\000\061\003\242\141\013\037\164\350\162
\066\306\155\373\111\152\236\372\042\250\341\021\126\317\315\273\237
\352\253\221\031\070\257\272\174\025\115\363\266\243\215\245\364
\216\366\104\024\251\124\7\350\041\122\255\076\000\142\026\210\360\002
\272\237\4\141\043\346\063\233\060\172\315\066\142\173\325\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\213\372\274\332
\001\142\051\242\246\047\161\346\072\292\042\176\301\157\353\225\160
\124\012\071\164\337\352\237\025\000\345\272\327\172\330\133\165
\174\005\172\051\110\176\100\250\061\012\363\161\315\100\073\264\121
\107\117\025\061\024\134\017\021\336\235\146\320\213\325\124\146\372
\203\125\352\174\032\051\211\033\351\157\263\316\342\005\204\311
\057\076\170\205\142\156\311\137\301\170\143\164\130\300\110\030
\014\231\071\153\244\314\032\265\171\312\215\025\234\330\024\015
\366\172\007\127\070\042\203\005\055\074\233\045\046\075\030\026
\251\103\174\310\310\253\144\217\016\243\277\234\033\235\060\333
\332\230\031\050\252\074\361\137\063\200\166\344\315\255\031\117
\005\047\216\023\241\15\165\302
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 2"
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
GmbH,C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317\027\330\224\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\116
\164\155\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\103\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\012\014\042\124\055\123\171\116
\164\155\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\103\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\012\014\042\124\055\123\171\116
\164\155\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\103\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
Open Source Used In Crosswork Common EMS Services 4.0.0 9531

# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\036\060\034\006\003\\125\004\003\\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\\125\004\012\014\040\101\164\157
\163\061\013\060\011\006\003\\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE


```
\172\327\134\011\040\267\177\224\271\117\361\015\034\136\210\102
\033\021\126\347\221\133\236\154\364\152\337\214\006\230\003\3255
\314\050\357\245\10\7\363\123\002\030\001\1000\001\124\102\060\100
\060\017\006\003\125\035\023\001\1001\137\77\004\005\060\003\001\001
\377\060\016\006\003\1\25\035\017\001\001\137\77\004\004\003\002\001
\006\060\035\006\003\1\25\035\016\006\002\060\002\024\223\227\326\363
\136\242\020\341\125\105\237\074\027\14\4\074\356\001\1\60\234\314
\060\015\000\001\105\220\066\010\206\367\150\001\1001\130\050\000\003
\20\020\002\001\000\00\30\213\131\165\374\076\172\307\137\167\037\132
\337\317\137\302\022\304\100\135\324\062\252\270\152\327\325\025
\20\25\106\230\043\245\346\220\133\030\213\144\343\255\102\243\202
\061\066\210\135\351\137\304\004\226\112\021\001\130\215\000\131\17
\133\063\006\226\106\164\16\035\11\173\355\301\266\271\124\015\141
\314\143\176\327\056\167\214\226\034\052\043\150\153\205\127\166
\160\063\023\376\341\117\246\043\167\030\372\032\214\350\275\145
\311\317\077\364\311\027\334\355\307\274\300\004\056\055\106\057
\151\146\303\033\217\376\354\076\323\331\224\277\166\001\124\051\105
\251\173\003\024\345\325\320\073\137\013\300\201\11\02\7\34\012\347
\247\055\116\275\115\030\330\051\130\042\020\320\030\254\162\002
\20\20\272\252\072\242\072\042\227\061\135\014\133\030\165\024\271
\140\050\051\135\130\340\026\251\146\20\043\121\365\353\123\330
\061\123\173\352\126\235\113\353\210\062\363\173\311\135\070\212\111
\060\021\375\356\135\303\013\364\167\032\061\130\115\147\124\154\057
\157\145\371\133\037\055\354\041\354\136\364\364\213\121\40\145\124
\321\161\144\364\371\124\6\02\110\03\066\063\116\136\024\1\173
\116\255\203\041\133\06\041\11\2153\013\125\235\362\166\120\066
\362\023\136\257\340\001\113\074\110\52\154\367\340\235\256\273\206
\112\205\050\175\056\362\264\171\131\220\063\302\263\160\372\365\360
\154\235\000\122\037\236\202\366\024\162\231\170\7\322\030\037\344
\065\050\123\362\212\42\313\377\141\203\246\002\324\045\070\366\205
\020\051\156\130\162\200\122\135\102\304\316\075\113\341\137\101\124
\035\325\242\120\314\10\137\10\024\303\275\326\311\132\243\143
\146\002\200\027\25\09\072\073\107\234\354\000\046\114\365\210\121
\277\250\043\177\030\007\260\013\355\213\046\241\144\323\141\112
\135\314\237\336\263\257\147\003\263\037\335\155\135\151\150\151
\253\136\072\235\174\151\274\307\051\162\236\025\271\264\025
\117\303\225\127\130\327\311\154\351\154\271\363\051\143\136\024
\054\360\055\075\355\132\145\340\251\133\030\1\1023\110\155
\230\037\006\052\074\022\264\213\017\233\242\044\360\246\215\326
\172\340\113\266\144\226\143\225\204\021\1231\034\056\044\027
\063\140\345\303

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
```
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After: Sun Jan 12 17:27:44 2042

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 2 G3"
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After: Sun Jan 12 18:59:32 2042

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\001\11\006\003\125\004\060\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\11\006\003\125\004\060\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\251\064\044\133\201\211\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\020\020\003\11\024\000\03\002\001\002\002\024\104
\127\064\044\133\201\121\123\065\362\316\270\053\073\133\247\046
\360\165\050\060\015\006\011\052\206\110\102\063\015\000\010\013
\005\000\006\011\010\061\13\060\11\11\006\000\3\125\004\060\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\114\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\012\050\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015
\061\062\060\061\061\062\061\070\065\071\063\062\132\027\150\064
\062\060\061\061\062\060\107\065\071\063\062\132\060\110\061\013
\060\011\006\000\3\125\004\060\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
\115\151\151\164\145\144\061\036\060\034\006\003\125\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\020\020\020\020\020\020\012\170\070
\020\012\002\200\001\000\241\125\045\262\001\030\033\127\210
\077\106\353\371\125\342\353\043\161\342\232\321\141\146\041\137
\252\257\047\121\134\150\033\026\324\055\157\120\260\123\167\275
\170\072\140\342\144\002\233\174\206\023\326\032\216\255\377\037
\025\177\335\225\036\022\133\346\024\040\031\137\066\263\026
\237\212\343\311\133\230\064\316\330\063\027\050\106\374\247\311
\360\322\264\325\115\011\162\111\137\136\020\073\343\251\132\175\241
\175\153\262\072\045\251\155\122\104\254\370\276\156\173\134\246
Open Source Used In Crosswork Common EMS Services 4.0.0  9537

# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\341\045\365\310\066
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END
CKA_ISSUER MULTILINE_OCTAL
\060\100\061\103\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\000\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\017\063
END
# Certificate "QuoVadis Root CA 3 G3"

# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\010\066\013\030\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\030\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\013\010\040\063\040\010\070\063

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\066\101\130\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\030\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\013\010\040\063\040\010\070\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\121\233\065\362\316\270\053\073
\133\247\046\360\165\050

END
END

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\14\151\155\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221\223\121\135\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\100\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\044\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151\103\145\162\164\040\101\163\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G3"
#
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\117\232\110\030\063\311\370\242\000\046\237\334\017\110
\054\253\060\211
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\337\215\272\076\231\342\134\255\156\373
END
CKA_ISSUER MULTILINE_OCTAL
\071\243\102\060\100\060\017\006\003\125\035\023\001\001\137\7004
\005\060\003\001\001\137\7006\016\006\003\125\035\017\001\137\377
\004\004\003\020\012\060\035\003\006\033\125\035\016\004\026\004
\024\313\320\275\251\341\230\005\121\241\115\067\242\203\171\136
\215\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\001\002\060\045\244\242\011\015\002\153
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\172\221
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\110
\046\066\175\325\344\064\206\071\010\020\060\174\066\123\360\060\345
\142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161
\136\221\023\247\335\244\156\222\314\062\326\365\041\146\307\057
\352\226\143\152\145\015\222\255\011\264
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root G2"
#
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\011\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\006\003\060\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\006\003\060\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\134\134\140\247\021\125\124\023\050\144\261\035\011
\372\345
END
# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before : Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\134 \215\117\202\244
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\104
END

CKA_ISSUER MULTILINE_OCTAL
\060\014\060\013\060\011\100\060\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\006\003\125\004\030\23\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
# Certificate "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\014\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\060\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\077\060\020\020\013\052\240\003\030\002\001\002\002\020\005
\125\126\274\362\136\244\065\065\033\244\017\325\253\105\162\060
\012\006\010\052\206\011\031\167\050\040\030\003\060\141\061\013\060
\011\010\060\031\125\004\006\023\002\012\125\123\061\025\060\023\006\003
\125\004\010\203\014\104\151\147\151\103\145\162\164\040\011\11\156
\143\061\030\166\020\060\030\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\104\000\060\036
\006\060\033\125\004\003\023\027\104\151\147\151\103\145\162\164\040
\107\151\147\151\142\144\11\154\040\122\157\157\164\040\010\063\060\036
\027\015\061\063\060\070\060\061\061\062\060\060\060\060\060\132\027
\015\063\037\060\061\061\061\061\062\060\060\060\060\132\060\141
\061\013\060\011\060\060\033\125\004\006\023\020\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\060\006\031\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\010\154\157\142\144\11\154\040\122\157\157\164\040\107
\063\060\166\060\020\060\007\052\206\110\316\075\020\001\006\005
\053\201\004\000\042\020\031\042\000\004\033\5\247\33\127\3\122\270\013
\373\013\177\041\132\226\360\276\276\163\363\063\135\032\274\064\352
\336\036\233\273\342\225\366\360\134\132\020\131\214\11\132\11\106
\176\236\055\237\165\021\143\014\027\354\007\160\063\351\172\204\056
\100\023\234\350\007\111\155\073\255\323\244\024\131\066\170\235
\003\103\356\020\023\154\162\336\256\210\247\244\11\153\265\103\316
\147\334\043\377\003\034\124\334\207\62\243\102\060\100\060\170\006
\003\125\035\023\010\011\037\004\040\003\002\001\206\060\003\16
\006\060\035\125\035\017\001\000\137\004\040\003\002\001\206\060\003\15
\006\060\035\125\035\016\000\026\004\024\263\333\110\244\371\241\130
\330\256\066\110\131\140\211\143\151\142\051\274\11\13\060\060\012\006
\010\005\220\061\110\136\075\000\030\003\030\150\000\000\060\145\002\061
\000\025\274\362\154\077\022\112\321\055\071\130\012\011\227\163
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\123
\062\236\146\223\017\361\214\261\011\121\335\154\253\372\153\177
\240\000\060\071\116\133\220\144\215\257\023\61\20\334\250\325\111
\124\235\307\334\321\111\177\027\011\270\310\206\217\116\214\121
\053\225\232\251\123\035\21\000\275\370\124\342\232\345\133\174
\263\047\027

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
Open Source Used In Crosswork Common EMS Services 4.0.0 9552

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073
\350\075\064\236
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "DigiCert Trusted Root G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\131\163\242\003\175\077\310\072\115\175
\167\135\005\344

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111

END

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\001\1006\003\125\004\006\023\002\125\123\061
# Certificate "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273\135\172\214\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\060\314\024\066\221\125\304\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\021\125\061\103\060\011\100\060\03\125\004\006\023\002\107\102
\061\033\060\031\010\060\312\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\101\060\000\031\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\060\003\125\004\012\023\021\103\117\115\117\104\117
\040\013\101\040\114\151\155\151\164\145\144\061\053\060\051\006

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273\135\172\214\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\060\314\024\066\221\125\304\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\021\125\061\103\060\011\100\060\03\125\004\006\023\002\107\102
\061\033\060\031\010\060\312\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\101\060\000\031\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\060\003\125\004\012\023\021\103\117\115\117\104\117
\040\013\101\040\114\151\155\151\164\145\144\061\053\060\051\006
# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\006\020\121\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\023\060\021\060\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SUBJECT_MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END
CKA_ISSUER MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
Public Key

# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"

Open Source Used In Crosswork Common EMS Services 4.0.0 9564
# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\010\001\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\010\001\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154

END

CKA_VALUE MULTILINE_OCTAL
\060\020\021\002\036\060\020\020\001\244\240\003\002\001\002\002\021\0140
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\020\020\020\006\010\052\206\110\316\075\004\003\030\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\03\003\040\122\157\157\164\040\010\01\040
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0  9569

# Certificate "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028

# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign ECC Root CA - R5,O=GlobalSign,C=US
# Serial Number: 10003001 (0x98a239)
# Subject: CN=GlobalSign ECC Root CA - R5,O=GlobalSign,C=US
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
Open Source Used In Crosswork Common EMS Services 4.0.0
Open Source Used In Crosswork Common EMS Services 4.0.0

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1): D8:EB:6B:41:92:59:00:F3:78:50:00:C0:3D:B6:88:97:9E:FC
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Staat der Nederlanden EV Root CA"

# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\140\142\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\100\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\140\142\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\100\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\160\060\202\003\130\240\003\002\001\002\002\002\004\000
\230\226\215\060\015\000\011\052\206\110\206\367\015\000\001\013
\005\000\060\013\060\010\006\003\125\004\006\023\002\116
\114\061\036\060\003\034\006\003\125\004\012\140\142\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\105\160\004\07\006\003\125\004\003\014\040\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\105\126\040\122\157\157\164\040\103\101\060\036\027\015
\061\060\061\062\060\07\006\1\061\061\07\1\062\07\1\132\027\015\062
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
# Fingerprint (SHA256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\030\350\322\160\037\300\365\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\110\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\140\025\123\164\141\141\164\040
\144\145\162\040\116\145\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "IdenTrust Commercial Root CA 1"

# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:e8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After: Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\112\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\230\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\14\154\040\122\157\157\164\040\103\101\040\061

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After: Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "IdenTrust Public Sector Root CA 1"
#
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\104\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

\015\020\355\175\102\300\217\356\300\232\010\032\5\101\326\134\016
\041\151\156\200\141\160\025\300\270\317\305\011\022\122\314\276
\072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\0075
\115\240\312\100\145\322\163\174\365\213\331\010\225\077\330\077
\043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\130
\321\043\323\070\233\355\156\204\051\177\135\256\116\316\032\0075
\227\011\120\045\151\156\200\141\035\372\136\377\163\254\240\034\211\270
\034\161\025\306\336\061\117\022\334\341\155\233\257\347\350\0237
\165\170\114\253\106\073\232\312\163\277\005\030\013\151\025\074\026
\232\031\120\004\232\262\232\157\145\213\122\137\074\130\004\050
\045\300\146\141\061\176\271\340\165\271\130\252\200\132\261\162\027
\263\035\003\061\065\021\117\017\024\343\350\237\012\225\077\200\0337
\130\337\074\272\047\226\342\200\064\155\343\230\323\144\047\254
\110\176\050\167\134\306\045\141\045\370\205\014\145\372\323\04062
\057\245\230\005\344\370\013\147\026\026\306\202\270\062\031\1371
\371\127\171\334\037\315\353\257\253\016\335\033\333\105\344\172
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\013\136
\125\346\070\034\242\251\113\063\336\101\164\171\177\121\211
\266\310\152\270\060\310\152\070\033\156\236\341\067\026\352\005
\142\114\133\022\107\355\247\264\263\130\126\037\111\363\177\022
\150\011\066\136\160\155\370\116\073\337\232\205\356\305\130\100
\031\124\035\247\371\113\013\067\334\150\132\117\317\353\152\144
\164\336\264\029\331\164\124\124\032\057\034\327\227\161\124\220
\126\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357
\361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\347\374\1346\153\220\335\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\357\234

END
# Certificate "Entrust Root Certification Authority - G2"

# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\022

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\022
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU=""(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".C=US
# Serial Number: 1246989352 (0x4a538e28)
# Subject: CN=Entrust Root Certification Authority - G2,OU=""(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".C=US
# Not Valid Before : Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273\223\042\162\226\223\222\240\012\376\026
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\020\276\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061\026\060\003\125\004\012\023\015\010\156\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\114\040\040\005\055\040\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\162\060\107\062
END

CKA_ISSUERMULTILINE_OCTAL
\060\020\276\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061\026\060\003\125\004\012\023\015\010\156\164\162\165\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\114\040\040\005\055\040\146\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\162\060\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU=(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:9f

# Subject: CN=Entrust Root Certification Authority - EC1, OU=(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Tue Dec 18 15:25:36 2012

# Not Valid After : Fri Dec 18 15:55:36 2037

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\277\061\013\060\001\11\060\003\125\004\006\023\022\125\123
\061\026\060\024\060\003\125\004\012\023\015\105\516\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\060\003\125\004
\013\022\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\060\171\060\067\060\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\025\014\165\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\032\023\052\105\156\164\162\165\163\164\040
\122\151\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061\END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\001\11\060\003\125\004\006\023\022\125\123
\061\026\060\024\060\003\125\004\012\023\015\105\516\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\060\003\125\004
\013\022\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\060\171\060\067\060\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\025\014\165\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\032\023\052\105\156\164\162\165\163\164\040
\122\151\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061\END
# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212
\353\024\265\107

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\2661\176\035\360\130\035\111\154\044\073\075\355\230\030\355\274

END

CKA_ISSUER MULTILINE_OCTAL
\060\0201\277\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\102\060\024\006\003\125\004\012\023\15\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\065\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\156\145\162
\155\163\061\071\060\067\066\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\005\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\041\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040

Open Source Used In Crosswork Common EMS Services 4.0.0 9589
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\060\060\060\060\125\125\004\002\013\103\101\101\101\040\105\126\105\105\102
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\060\060\060\060\125\125\004\002\013\103\101\101\101\040\105\126\105\105\102
\060\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\040
\171\061\025\060\023\006\003\125\004\003\014\014\03\106\103\103
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\000\012\020\032\022\371
END

# Certificate "CFCA EV ROOT"
# # Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "CFCA EV ROOT"
# Certificate_type CK_CERTIFICATE_TYPE CKC_X_509
# Subject MULTILINE_OCTAL
\060\060\060\013\006\003\125\004\006\023\002\103\116\061
\060\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\040
\171\061\025\060\023\006\003\125\004\003\014\014\03\106\103\103
\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\013\012\040\105
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\013\012\040\105
END

# Crosswork Common EMS Services 4.0.0
Open Source Used In Crosswork Common EMS Services 4.0.0  9590
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After: Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270
\071\121\204\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\000\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\010\145\162\164\151\146
\151\143\141\146\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\013\106\103\101
\040\010\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\131\43\32
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISEKey Global Root GB CA"
# Issuer: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Subject: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After: Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):
# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375\047\254\314\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\056\026\057\230\026\065\046\022\023\121\035\END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\001\100\060\003\125\004\006\023\002\103\110\061
\020\060\016\000\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\000\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\105\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\026\104\012\162\164\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SZAFIR ROOT CA2"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\130\060\011\006\003\125\004\006\023\023\022\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\121\061\130\060\011\006\003\125\004\006\023\023\022\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\204\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\162\060\020\002\132\240\003\002\001\002\002\024\076
\212\135\007\354\125\322\062\325\267\343\266\137\001\353\055\334
\344\262\344\060\015\006\001\015\026\016\020\063\367\150\001\013
\005\050\060\012\016\013\060\011\006\003\125\004\006\023\022\120
\114\061\050\060\046\006\003\125\004\012\014\037\113\162\141\152
\157\116\141\040\111\172\142\141\040\122\157\172\154\151\143\172
\154\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\204\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END

# Trust for "SZAFIR ROOT CA2"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"

[CA:

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\317
\136\263\077\336
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END

CKA_ISSUER_MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\140\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\050\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\060\111\122\040\122\117\117\124\040
\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA 2"
#
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Serial Number:21:d6:d0:4a:4f:25:0f:ca:5e:12:8d:e9
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "Hellenic Academic and Research Institutions RootCA 2015"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\`\...

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN BBOOL CK_TRUE
CKA_PRIVATE BBOOL CK_FALSE
CKA_MODIFIABLE BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\140\006\225\246\230\031\024\377\277\137\060\260\266\225\352\051\351\022\246
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\377\342\333\003\331\131\113\351\017\255\204\375\173\030\316
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\107\060\150\060\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\060\003\125\004\012\230\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\000\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After: Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Certificate "ISRG Root X1"

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After: Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \141\162\143\150\004\010\107\162\157\165\160\061\025\060\023\006\003 \125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130 \061 END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \141\162\143\150\004\010\107\162\157\165\160\061\025\060\023\006\003 \125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130 \061 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143 \202\213\000 \060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\0060 \117\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \050\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \162\143\150\004\010\107\162\157\165\160\061\025\060\023\006\003 \004\003\023\144\111\123\122\107\040\122\157\157\164\040\130 \060\060\027\027\015\061\065\060\060\066\060\064\061\061\060\064\063\070\132 \027\015\063\065\060\060\066\064\061\061\060\064\063\070\132 \060\011\070\013\060\011\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \141\162\143\150\004\010\107\162\157\165\160\061\025\060\023\006\003 \125\004\003\023\144\111\123\122\107\040\122\157\157\164\040\130 \061\060\027\027\015\061\065\060\060\066\060\064\061\061\060\064\063\070\132 \027\015\063\065\060\060\066\064\061\061\060\064\063\070\132 \060\011\070\013\060\011\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \141\162\143\150\004\010\107\162\157\165\160\061\025\060\023\006\003 \125\004\003\023\144\111\123\122\107\040\122\157\157\164\040\130 \061\060\027\027\015\061\065\060\060\066\060\064\061\061\060\064\063\070\132 \027\015\063\065\060\060\066\064\061\061\060\064\063\070\132 \060\011\070\013\060\011\006\003\125\004\006\023\002\125\123\061 \051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156 \145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145 \141\162\143\150\004\010\107\162\157\165\160\061\025\060\023\006\003 \125\004\003\023\144\111\123\122\107\040\122\157\157\164\040\130 \061\060\027\027\015\061\065\060\060\066\060\064\061\061\060\064\063\070\132
# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
312275052171241007152061362035045066065313003235
1030512450350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
0143322371\340332027163551355206115245\3431603347116
END
CKA_ISSUER_MULTILINE_OCTAL
06011706101306001100600312500406023002125\123061
05106004700600312500401202304011156164145162156
145164040123145143165162151164171040122145163145
141162143150040107162157165160061025060023006003
125004003023001411112312207040122157157164040130
# Certificate "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"

CKA_SUBJECT_MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\23\061\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106\116\115\124\055\122\103\115

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\23\061\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122\103\15\061\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106\116\115\124\055\122\103\115

END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\31\006\035\032\307\124\204\151\007

END

CKA_VALUE_MULTILINE_OCTAL
\060\020\005\203\060\202\003\153\240\003\002\001\002\002\017\135\223\215\060\147\066\31\006\035\032\307\124\204\151\100\07\060\015
\175\305\375\043\350\232\033\167\144\247\365\035\240\314\277\207
\140\232\155\060\076\060\063\125\035\040\004\067\060\065\060\063
\006\000\041\250\035\040\000\060\030\060\051\100\010\053\006\000\010
\005\007\002\001\102\260\035\151\016\161\164\160\072\057\057\167\167\167
\056\143\145\162\164\056\146\156\155\164\056\145\163\057\144\160
\143\63\057\060\151\006\011\105\202\206\110\202\367\015\001\010\103
\005\000\003\020\200\001\000\007\220\112\337\363\043\116\360\303
\234\121\145\233\234\042\242\121\014\205\363\163\051\153\115\376
\001\134\252\101\144\000\127\004\147\245\235\230\137\375\010\123
\372\235\42\142\335\120\367\166\142\322\156\114\224\373\300\165
\105\174\145\014\370\262\067\317\254\001\173\121\157\377\103\116
\217\354\036\362\160\236\360\312\270\357\267\377\166\067\166\133
\366\156\210\363\325\174\062\042\223\015\072\152\216\024\146\014
\055\123\164\127\145\036\325\262\333\043\201\073\245\146\043\047
\147\011\217\341\167\252\103\315\145\121\10\103\55\121\130\376\346
\071\371\313\107\204\244\025\361\166\273\324\343\356\244\073\304\137
\357\262\063\226\021\030\267\111\145\276\030\341\243\244\334\372
\030\371\322\374\023\011\172\064\272\323\101\373\372\062\212
\052\267\053\200\013\151\120\030\070\276\315\021\156\013\160\255\215
\046\222\356\036\365\001\053\012\333\326\227\233\156\340\250\003\1
\034\072\041\213\040\361\010\255\003\347\353\345\146\176\365\271\040
\015\003\350\220\031\120\105\324\071\340\240\000\135\327\230\346
\175\236\147\163\303\232\052\367\253\123\140\172\245\064\274
\122\016\211\230\232\004\100\204\035\176\105\151\223\127\316\353
\316\370\120\174\170\303\156\000\103\233\371\326\073\043\030\353
\352\216\321\115\061\215\361\073\344\152\312\12\272\373\043\267\233
\372\231\001\051\132\130\132\053\343\371\132\155\016\046\255\301
\156\064\274\062\237\014\000\372\145\243\333\073\067\203\042\353
\326\034\162\063\375\135\362\040\275\166\074\043\332\050\367\371
\033\353\131\144\325\343\137\162\176\040\374\315\211\265\220\147
\115\142\127\077\116\255\035\330\071\376\172\364\050\026\337\101
\366\110\200\005\327\017\121\171\254\020\253\324\354\003\146\346
\152\220\172\061\122\102\100\152\276\072\323\162\341\152\067\125
\274\254\035\225\267\111\146\136\102\332\164\346\240\323\012\044
\106\241\100\257\326\332\105\031\226\324\123\035\133\204\171\360
\300\367\107\357\213\127\305\006\256\235\114\142\253\377\106\004
\370\033\311\260\020\045\100\165\376\026\252\311\112\140\206\057
\272\357\060\167\344\124\342\270\204\023\110\200\252\023\213\121
\072\117\110\366\213\266\263

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
END

# Certificate "Amazon Root CA 1"

# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

\207\043\326\077\100\040\177\040\200\034\200\114\076\073\044\046
\216\004\256\154\232\310\252\015\002\003\001\000\000\01243\102\060
\100\060\017\060\003\125\035\023\011\001\137\007\045\004\030\001
\001\137\006\001\16\006\003\125\035\017\001\100\137\007\004\004\030\002
\001\206\060\025\060\000\132\025\060\004\026\004\024\204\030\034
\205\064\354\234\014\222\224\220\246\220\056\010\131\234\307\262\020\161\012
\010\060\015\006\011\052\206\011\060\367\015\001\100\130\050\00
\003\020\020\010\001\000\230\362\067\132\101\220\241\023\320\165\211
\050\040\066\043\016\256\346\050\027\232\252\370\224\256\110\244\060
\177\033\374\044\215\113\234\310\241\227\366\266\361\172\160\310
\123\223\314\010\050\034\230\045\317\043\244\371\236\041\323\174
\205\011\255\116\232\315\072\320\023\152\221\117\166\104\010\70\030
\145\154\215\010\216\073\177\232\313\236\426\247\120\327\005\054
\067\350\003\113\255\351\141\240\002\156\365\362\360\305\262\355
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\250\327\370
\223\073\336\213\134\312\132\122\133\140\257\024\367\113\357
\243\373\237\100\225\155\061\124\374\102\23\307\060\370\034\025
\331\101\170\160\232\331\165\170\161\321\162\103\064\165\156\127
\131\302\002\134\046\140\051\317\043\031\026\216\210\103\245\324
\344\313\010\373\034\021\103\350\103\051\162\142\241\251\135\136
\010\324\220\256\267\020\330\330\224\243\230\220\125\362\206\366\334\223
\103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162
\256\245\332\175\272\202\236\206\154\033\212\271\130\063\370\035
\304\220\276\361\271
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

END

# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

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# Certificate "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\124\375\264\055\011\054\027\124\112\230\032\124\341\121\147\010
\322\355\156\176\157\077\322\055\201\110\206\367\015\000\010\140\050\000
\003\322\020\020\011\000\050\252\250\200\127\161\170\243\340\242\343\15
\346\365\230\172\073\352\000\010\260\227\016\223\274\132\250\366
\054\214\162\207\251\261\374\177\163\375\143\161\170\245\207\131
\317\060\341\015\020\262\023\132\155\202\365\152\346\200\037\240
\005\013\150\344\107\153\307\152\337\266\375\167\062\162\345\030
\372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\000
\171\126\061\164\343\143\255\170\203\011\206\150\204\132\377\371\137
\046\232\222\171\347\315\113\305\347\141\247\027\313\363\251\022
\223\223\153\247\350\057\123\222\230\140\130\260\341\002\121\030
\133\202\215\142\131\143\266\255\264\336\232\373\046\367\000\047
\300\135\125\067\164\232\131\112\010\177\343\131\056\104\343\054\045
\356\354\114\062\167\264\237\032\351\113\135\304\040\305\332\237\034
\207\026\306\103\350\324\247\200\232\051\160\013\366\251\013\067\123
\342\106\173\047\375\340\010\362\211\267\314\012\266\031\050\046
\156\331\245\311\072\310\010\023\140\367\120\214\025\256\262\155
\032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257
\256\022\072\047\226\066\004\327\035\242\200\143\251\233\361\1345
\272\264\174\042\260\116\311\261\037\164\137\070\366\121\352\233
\372\054\242\202\132\251\055\047\032\050\251\257\262\116\161\015
\300\130\063\326\151\010\063\313\123\331\263\376\153\101\131\011\176
\175\114\017\174\162\171\172\131\315\136\112\016\254\233\251\1230
\163\171\174\264\363\314\271\270\007\014\262\164\134\270\073\157
\210\241\220\242\247\364\252\371\277\147\072\234\032\025\142\036\262
\123\76\075\261\051\257\147\241\022\362\130\020\031\112\300\0360
\033\270\032\111\366\234\275\277\032\164\243\011\136\035\213\041
\361\264\373\344\034\321\123\145\000\026\352\134\326\023\263\024
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\064
\352\235\360\215\113\070\234\031\123\203\350\012\247\021\122\0357
\312\165\201\076\036\321\144\044\037\030\032\257\116\377\107\236\007
\366\065\145\244\323\012\126\377\365\027\144\154\357\250\042\045
\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\321
\137\041\020\037\371\163\327\200\012\047\007\035\361\326\073\323
\340\373\011\140\154
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
n
# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170\n\317\107\113\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\n\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\n\061\031\060\027\006\003\125\004\009\023\020\101\155\141\172\157\n\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370\n\133\046\273\212\067
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Amazon Root CA 3"
#
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKAMODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\040\122\157\157\164\040\103\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIALNUMBER MULTILINE_OCTAL
\002\023\006\003\000\125\004\003\020\006\003\013\002\002\023\006
END
CKA_VALUE MULTILINE_OCTAL
\060\040\122\157\157\164\040\103\101\040\063
END

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# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

# Certificate "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\127\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\224\061\013\060\001\11\060\003\125\004\006\023\002\125\123
\061\035\060\003\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\140\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\140\105\150\040\107\066
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\224\061\013\060\001\11\060\003\125\004\006\023\002\125\123
\061\035\060\003\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\140\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\140\105\150\040\107\066
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060201224061013060011006003112500040060230021251123
0610350060030060031125000412023024123117115511411156
16414511430401031571621601571621411641511571561061
03706003500200130230261123171155114111561014
14514311401041241621651631641400116145164167157162153
061110506010300600311250040030230741123117115511411156
1641451143040103154141163163040061040120165142154
11511541431040120162151155114111621711040103145162164151
146151143114116415111571560401011165164150157162151
11641171040055040107066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002002040406216536203510573222011063367264152312320
363230
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022
# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6, OU=Symantec Trust
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6, OU=Symantec Trust
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302\121\324\035\217
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\201\230\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\203\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\160\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Certificate "D-TRUST Root CA 3 2013"

Issuer: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
Serial Number: 1039788 (0xfdac)
Subject: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
Not Valid Before: Fri Sep 20 08:25:51 2013
Not Valid After: Wed Sep 20 08:25:51 2028
Fingerprint (SHA-256):
Fingerprint (SHA1):

`CKA_CLASS` CK_OBJECT_CLASS CKO_CERTIFICATE
`CKA_TOKEN` CK_BBOOL CK_TRUE
`CKA_PRIVATE` CK_BBOOL CK_FALSE
`CKA_MODIFIABLE` CK_BBOOL CK_FALSE
`CKA_LABEL` UTF8 "D-TRUST Root CA 3 2013"
`CKA_CERTIFICATE_TYPE` CK_CERTIFICATE_TYPE CKC_X_509
`CKA_SUBJECT` MULTILINE_OCTAL
`CKA_ID` UTF8 "0"
`CKA_ISSUER` MULTILINE_OCTAL
`CKA_SERIAL_NUMBER` MULTILINE_OCTAL
`CKA_VALUE` MULTILINE_OCTAL

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KA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
KA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
KA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfdac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
#   Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
#   Serial Number: 1 (0x1)
#   Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
#   Not Valid Before: Mon Nov 25 08:25:55 2013
#   Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\322\061\013\060\001\110\006\003\125\004\006\023\002\124\012
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\116\212\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\065\030\060\033\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\150\040\123\123\140\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\001\110\006\003\125\004\006\023\002\124\012
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\116\212\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
GTKZ07:37T1:247T21041127T34172337T003147T211054235227
1411247T02027012522017T016055047070164337T347T357332
116022343115025042002310340340374017255212327311
12411203147031712026200240320121126303216126177
2111042063057346205011275245250033066336323334054
1150730702372151104305434634552443673300113355352
220110012402502252732233253202000642661061170016037
00022310634135635113711541170270020030010001001243
10206010006000350060031250350016004026004024145077
30721220630607433550741124134065370072355122014107
1273100600160060031250350170011001377004004003002
001106000170060031250350230011001377004005060003
00110013770600150601100522061110206367015001001013
005000000320200100100005207773411361062216256341230
134111316311711530466152011322204225102220371136127175
163112614420024041222233440111271120230315237052047341
00011672761103106525020123734427054311177016260
322211067135352271325013136064275364163051303355
04602522341760110320211301520113050337301263337
04003633713433433072337314234223030116117030153027
2673671623502551460632650451232533403707142511235
37536201527225202711331252306153317223273256253270
2270740030320272103306226271051620702632472411226
0752211731763000411231142073536201312422512112223
325042450151236112230160761240162603303111163334
3620610621263521443713522652350261146102162163177
3323261061103374242160273361155043253224146370255
3730170101560046055177027007011262214373120300237
226215317266375000235132024232277002104365301302
123704213624201172411334

END

CKA_NSS MOZILLA_CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After: Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
Open Source Used In Crosswork Common EMS Services 4.0.0 9641

# Certificate "GDCA TrustAUTH R5 ROOT"
#
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.";C=CN
# Serial Number: 7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.";C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
#  CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO., LTD.",C=CN
# Serial Number: 7d:09:ff:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO., LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After: Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\033\233\061\116\203\312\351\064\146
\160\314\164\264
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
Open Source Used In Crosswork Common EMS Services 4.0.0

END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\131\060\133\060\061\132\060\023\006\103\116\061
\062\060\060\060\066\003\125\004\012\014\055\110\125\101\116\107\040
\104\117\116\110\040\103\105\112\124\111\110\111\103\101\124\105
\040\101\125\124\110\117\112\111\124\131\104\010\103\117\105\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\110\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "TrustCor RootCert CA-1"
#
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After: Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\131\060\133\060\061\132\060\023\006\103\116\061
\061\107\060\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\144\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\101\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"

# Certificate "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
# Trust for "TrustCor RootCert CA-2"

## Issuer: CN=TrustCor RootCert CA-2, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA

# Serial Number: 25:a1:df:ca:33:cb:59:02

# Subject: CN=TrustCor RootCert CA-2, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA

# Not Valid Before: Thu Feb 04 12:32:23 2016

# Not Valid After: Sun Dec 31 17:26:39 2034

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

## CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST

## CKA_TOKEN
CK_BBOOL CK_TRUE

## CKA_PRIVATE
CK_BBOOL CK_FALSE

## CKA_MODIFIABLE
CK_BBOOL CK_FALSE

## CKA_LABEL
UTF8 "TrustCor RootCert CA-2"

## Cert SHA1 Hash
```
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\000
```

## Cert MD5 Hash
```
\242\341\370\030\013\272\105\325\070\101\052\273\067\122\105\144
```

## Issuer
```
\060\201\244\061\103\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\110\3\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\151\051\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
```

## Serial Number
```
\002\010\045\241\337\312\063\313\131\002
```

## Trust Server Auth
```
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

## Trust Email Protection
```
CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
```

## Trust Code Signing
```
CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
```

## Trust Step Up Approved
```
CK_BBOOL CK_FALSE
```

---

Open Source Used In Crosswork Common EMS Services 4.0.0 9652
# Certificate "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
#   58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA_CLASS CKOBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"

CKA_ID UTF8 "0"

CKA_ISSUER "0"

CKA_SERIAL_NUMBER "0"

CKA_VALUE "0"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
# City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
# City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_ISSUER MULTILINE_OCTAL

\060\016\006\003\125\035\017\001\001\377\004\004\003\002\001\206\020\001\000\000\050\076\065\134\025\160\023\31\130\71\163\141\157\162\053\324\030\217\162\103\031\135\002\316\034\024\271\122\4\21\013\147\135\342\147\154\165\166\277\273\014\252\066\306\255\107\122\314\33\034\176\336\056\376\351\031\062\070\003\177\024\366\000\163\054\131\261\041\006\341\373\254\030\225\014\243\377\231\226\367\053\047\233\325\044\314\035\335\301\072\340\230\104\260\304\344\076\167\216\163\251\144\054\366\034\001\174\077\135\105\205\300\025\347\045\217\225\334\027\363\074\237\032\115\260\312\343\035\052\351\114\143\337\204\141\142\326\332\176\266\034\154\365\002\035\324\052\335\125\220\353\052\201\107\074\056\136\164\262\202\042\245\175\123\037\105\354\047\221\175\347\042\206\350\300\150\066\330\306\361\117\200\104\062\371\341\321\321\035\252\336\250\253\234\004\257\255\040\161\144\230\115\245\153\300\110\130\226\151\115\334\007\214\121\223\242\337\237\017\075\213\140\264\202\215\252\010\116\142\015\340\371\013\322\340\340\074\133\336\134\161\047\045\302\346\003\201\213\020\123\343\307\125\242\264\237\327\346

END
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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\170\060\15\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\10\151\164\171\061\044\060\042\02\006\003\125\004\012
\014\033\124\16\165\163\164\10\157\162\04\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\16\165\163\164\10\157\162
\040\10\157\162\164\15\146\151\143\141\164\145\040\10\116\164
\151\157\162\151\164\171\061\027\060\025\006\003\125\004\003\104
\161\124\16\165\163\164\10\157\162\04\10\105\103\101\105\061
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com Root Certification Authority RSA"
#
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\104\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\013\045\050\123\123\140\056\143\157\155\04\122\157
\157\164\040\10\145\162\164\151\146\151\143\141\164\151\157\156
\040\10\165\164\150\157\162\151\164\17\104\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Thu Feb 12 17:39:39 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251
\066\111\014\273

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\354\254\254\302\235\274\245\133\241\051

END

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\000\000\03\125\004\006\023\002\125\123\061
\016\060\014\000\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\000\003\125\004\007\104\007\110\157\165\163\164\157
\156\061\030\060\002\26\006\003\125\004\012\014\017\123\123\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\140\050\123\123\140\056\143\157\155\040\122\157
\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com Root Certification Authority ECC"
#
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CLASSIFIER CK_CLASSIFIER CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
CKA_VALUE MULTILINE_OCTAL
\060\020\002\021\015\060\020\020\020\020\024\020\003\003\002\001\000\002\002\001\0165
\346\337\313\301\150\133\250\060\012\000\060\010\005\220\206\110\316\075
\004\000\020\060\017\046\011\013\060\011\000\060\003\125\004\006\003\002
\125\203\060\160\060\014\000\060\003\125\004\010\014\005\124\145\170
\141\163\015\016\060\010\006\003\125\004\007\014\005\123\123\114\056\143\157\155
\163\164\157\156\010\030\026\000\060\003\125\004\000\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\010\116\516\150\157\162\151\164\171\040\105\103
\103\060\036\027\015\060\110\060\062\060\062\061\060\070\061\064\060\063
\132\060\174\060\101\030\060\011\000\060\003\125\004\006\002\003\021\125\123
\061\106\060\014\000\060\003\125\004\010\010\014\005\124\145\170\141\163
\061\120\060\016\000\060\003\125\004\007\014\007\110\157\165\163\164
\157\156\060\103\060\026\060\003\125\004\012\014\017\123\123\114
\104\010\133\157\162\160\157\162\141\116\141\151\157\156\061\106\160\057
\006\060\035\125\004\003\014\050\123\123\114\056\143\157\155\040\122
\157\157\164\040\010\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\040\105\103\103\030\060
\166\060\020\060\007\052\206\110\316\075\002\001\016\005\053\201
\004\000\042\003\142\000\004\105\156\251\120\304\246\043\066\236
\137\050\215\027\313\222\042\144\077\334\172\216\035\314\10\0263
\242\161\044\272\216\111\271\004\033\107\226\130\253\055\225\310
\355\236\010\065\310\047\353\321\112\141\123\130\353\142\212\376\360
\133\017\153\061\112\221\043\101\073\211\131\354\354\266\215\031\323
\064\007\334\273\306\060\167\302\010\052\225\354\313\177\250\043\340
\011\135\120\137\236\317\073\232\243\143\060\014\060\035\006\003\0125
\035\016\040\026\000\042\202\203\212\020\156\360\034\076\065\003\323\216
\002\222\373\345\244\321\130\040\135\031\150\060\017\006\003\125\035
\023\001\000\137\777\004\050\060\003\001\001\377\060\037\006\003\125
\035\043\040\030\060\026\200\024\202\232\120\156\360\034\076\005\004
\323\216\002\222\373\345\244\321\130\040\135\031\150\060\160\006\003
\125\035\017\001\000\137\777\004\040\003\020\012\060\060\012\006\010
\052\206\110\103\160\075\004\003\002\003\147\000\060\144\002\060\157
\134\735\131\102\124\44\140\317\141\126\020\226\173\335\005\371\105\023
\221\133\345\345\337\341\201\153\021\1106\106\263\341\041\000\142\273
\276\303\347\353\015\007\231\371\015\031\315\162\076\304\252\002
\060\037\274\272\013\342\060\044\373\174\155\200\125\012\231\076
\200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246
\135\176\342\360\007\010\150\155\322\174\151\156\137\337\345\152
\145
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\040\225\172\342\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER_MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\110\157\165\163\164
\157\156\060\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\133\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\110\157\165\163\164
\157\156\060\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\133\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\260\051\315\064\274\170\366
END
CKA_VALUE MULTILINE_OCTAL
Open Source Used In Crosswork Common EMS Services 4.0.0

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042

END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\120\202\126\061\130\060\011\106\003\125\004\006\023\002\125\123
\061\106\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\102\060\016\060\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\103\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\011\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\036
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\103\060\011\100\060\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\016\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\103\060\011\100\060\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\016\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_VALUE MULTILINE_OCTAL
\060\020\02\224\060\020\002\032\240\003\002\001\002\002\010\054
\051\234\133\026\355\005\225\060\012\006\010\052\206\110\316\075
\004\003\002\026\060\177\061\103\060\011\100\060\003\125\004\006\023\002
\125\123\061\16\016\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165
\163\164\157\156\061\103\060\026\006\003\125\004\012\014\017\123
\123\14\040\103\157\162\160\157\162\141\164\151\157\156\061\064
\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157\155
\040\105\126\120\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\115\157\156\040\101\165\164\151\157\162\151\164\171
\140\105\103\103\060\036\027\150\061\066\060\062\061\062\061\070
\061\065\062\063\132\027\150\064\061\060\062\061\062\061\070
\065\062\063\132\060\177\061\103\060\011\100\060\003\125\004\006\023
\002\125\123\061\106\060\014\006\003\125\004\010\014\005\124\145
\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157
\165\164\157\156\061\103\060\026\006\003\125\004\012\014\017
\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061
\064\060\062\006\003\125\004\003\014\053\123\123\114\056\143\157

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

END
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034

CKA_CLASS CK_OBJECTCLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"

CKA_CLASS_TYPE CK_CER FICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\114\061\040\060\036\006\036\003\125\004\013\023\027\107\154\157
 \142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
 \055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
 \154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
 \004\03\023\101\107\154\157\142\141\154\123\151\147\156
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\114\061\040\060\036\006\036\003\125\004\013\023\027\107\154\157
# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIED CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\122\212\234\037\335\325\237\201\002
\143\247\373\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\060\040\060\036\006\003\012\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\012\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\040\03\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GC CA"
#
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH

Not Valid Before: Tue May 09 09:48:34 2017
Not Valid After: Fri May 09 09:58:33 2042

Fingerprint (SHA-256):

Fingerprint (SHA1):

CKA_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CKCERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
Open Source Used In Crosswork Common EMS Services 4.0.0

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WiSeKey Global Root GC CA"
# Issuer: CN=OISTE WiSeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WiSeKey,C=CH
# Subject: CN=OISTE WiSeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WiSeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GC CA"

"OISTE WiSeKey Global Root GC CA"
"Certificate "UCA Global G2 Root"

Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
Not Valid Before: Fri Mar 11 00:00:00 2016
Not Valid After: Mon Dec 31 00:00:00 2040

# Certificate "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After: Mon Dec 31 00:00:00 2040
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316
\134\266\114\212
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\376\360\304\112\360\134\142\062\237\034\272\170\251\120\370
END

CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\100\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\133\132\124\355\135\276\132\145\040\145\003
\220\357
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\13\060\011\006\003\125\004\006\023\002\103\116\061 \021\060\017\066\003\125\004\012\014\010\125\156\151\124\162\165 \163\164\061\045\060\043\006\003\125\004\003\104\034\125\103\101 \040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141 \164\151\157\156\040\122\157\157\164
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\107\061\13\060\011\006\003\125\004\006\023\002\103\116\061 \021\060\017\066\003\125\004\012\014\010\125\156\151\124\162\165 \163\164\061\045\060\043\006\003\125\004\003\104\034\125\103\101 \040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141 \164\151\157\156\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043 \160\140

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\117 \322\053\217\365\144\310\063\236\117\064\130\146\043 \160\140
\015\006\011\052\206\110\206\367\151\001\101\130\005\000\060\107 \061\13\060\011\006\003\125\004\006\023\002\103\116\061\021\060 \017\060\003\125\004\012\014\010\125\156\151\124\162\165 \163\164\061\045\060\043\006\003\125\004\003\104\034\125\103\101 \040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141 \157\156\040\122\157\157\164 \063\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061 \060\060\060\060\060\060\060\132\060\107\060\110\130\006\003\125 \004\006\023\002\103\116\061\021\060\017\060\003\125\004\012\014 \010\125\156\151\124\162\165 \163\164\061\045\060\043\006\003\125\004\003\104\034\125\103\101 \040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141 \157\156\040\122\157\157\164 \063\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061 \060\060\060\060\060\060\060\132\060\107\060\110\130\006\003\125 \004\006\023\002\103\116\061\021\060\017\060\003\125\004\012\014 \010\125\156\151\124\162\165 \163\164\061\045\060\043\006\003\125\004\003\104\034\125\103\101 \040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141 \157\156\040\122\157\157\164


\"164\156\374\175\374\217\320\207\046\260\033\373\271\154\253\342 \236\075\202\301\073\056\147\002\130\221\123\357\370\102\037\054 \267\150\365\160\255\317\265\366\377\021\175\302\260\044\245\255 \323\372\240\074\251\372\135\334\245\204\357\104\244\276\326\350 \345\344\023\236\027\173\006\076\062\355\307\267\102\274\166\243 \330\145\070\053\070\065\121\041\101\160\161\157\056\064\023\100\341 \053\147\014\1551\12\101\060\030\043\132\062\125\231\131\027\340 \074\336\366\354\171\255\053\130\031\242\255\054\042\032\225\216 \276\226\220\135\102\127\304\071\204\003\065\053\034\055\121\127 \010\247\072\336\077\344\310\264\003\163\302\301\046\200\273\013 \102\037\255\015\257\046\162\332\314\276\263\243\203\130\015\202 \305\037\106\121\343\234\030\314\215\233\215\354\111\353\165\120 \325\214\050\131\12\164\064\033\214\013\041\253\036\352\033\345 \307\375\025\076\300\027\252\373\043\156\046\106\133\173\327\126 \162\153\151\137\042\204\013\142\017\254\331\031\000\224\242\166 \074\324\055\232\355\004\236\055\006\142\020\067\122\034\205\162 \033\047\345\134\060\061\354\046\131\233\013\035\166\014 \176\062\232\210\025\010\066\122\273\336\166\137\166\111\111\255 \177\275\145\040\262\231\130\063\166\030\166\237\126\261 \END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\061\013\060\011\060\003\125\004\060\232\002\010\3\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
Open Source Used In Crosswork Common EMS Services 4.0.0 9681
# Certificate "Certigna Root CA"

# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number:00:ca:e9:1b:89:f1:55:03:0a3:e6:41:6d:ce:3:a6ce1
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# Certificate "Certigna Root CA"

# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number:00:ca:e9:1b:89:f1:55:03:0a3:e6:41:6d:ce:3:a6ce1
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# Certificate "Certigna Root CA"

# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number:00:ca:e9:1b:89:f1:55:03:0a3:e6:41:6d:ce:3:a6ce1
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After: Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\334\210\026\044\231\074\215\046\230\266\133\267\314\316\267
\067\070\037\55\046\331\123\020\05\044\377\131\043\003\232\355\235\235
\250\034\136\070\036\133\271\122\015\157\322\077\155\261\005\153\111
\316\212\222\106\163\364\366\057\360\250\163\167\016\145\254\241
\215\146\122\151\176\113\150\014\307\036\067\047\203\245\214\307
\002\034\024\131\111\001\260\163\263\375\306\220\072\157\322\154
\355\073\356\354\221\276\024\103\135\213\000\112\146\045\104\160
\336\100\017\370\174\025\367\242\316\074\327\136\023\214\201\027
\030\027\321\275\361\167\020\072\324\145\071\301\047\254\127\054
\045\124\377\242\332\117\212\141\071\136\256\075\112\214\275
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END

CKA_ISSUER_MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\026\060\033\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\032\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
# Certificate "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\011\060\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\344\142\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061

END

CKA_VALUE MULTILINE_OCTAL
\060\020\03\224\060\020\002\174\240\003\002\001\002\002\012\061
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\006\014\070\061\013\060\011\006\003

END
# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0eda:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CKO_OBJECT_CLASS
CKA_TOKEN CK_TRUE
CKA_PRIVATE CK_FALSE
CKA_MODIFIABLE CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_CERTIFICATE_TYPE CKCERTIFICATE

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\153\060\101\036\003\125\004\006\023\002\111\116\061
\023\060\021\000\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\03\125\004\002\023\034\145
\115\164\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\153\151\164\145\144\061\040\060\036\006
\003\125\004\002\023\027\145\155\123\151\147\156\040\005\040\010\076

END

CKA_SERIALNUMBER MULTILINE_OCTAL
\002\120\074\366\007\251\150\160\016\332\213\204

END

CKA_VALUE MULTILINE_OCTAL
\060\02\002\002\116\060\02\200\001\323\240\003\002\001\002\002\012\074
\366\007\251\150\160\016\332\213\204\060\012\000\010\052\206\110
\316\075\004\003\003\125\061\013\060\011\006\003\125\004\006
\023\002\111\116\061\023\060\021\000\003\125\004\002\023\034\145
\115\123\151\147\156\040\005\040\010\076

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\030\036\056\130\352\170\262
\077\346\273\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\013\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\144\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign Root CA - C1"
#
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145

Open Source Used In Crosswork Common EMS Services 4.0.0 9691
# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121
\333\206\117\001
END
Certificate "emSign ECC Root CA - C3"

Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After : Wed Feb 18 18:30:00 2043
Fingerprint (SHA-256):
CLASS OBJECT_CLASS CKO_CERTIFICATE
TOKEN CK_BBOOL CK_TRUE
PRIVATE CK_BBOOL CK_FALSE
MODIFIABLE CK_BBOOL CK_FALSE
LABEL UTF8 "emSign ECC Root CA - C3"
CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
SUBJECT MULTILINE_OCTAL
060132060101306001100600311250004000600230021125123061
0230060021006003125004010302301214515512311471156
040120111106110240600220060031250040120230131145
1151651441501621410401111561430610340600320060003
1250040030230231451551231151147115604012211571157164
040103101040055040103061
END
ISSUER MULTILINE_OCTAL
06011206010130600110060031125004000600230021125123061
0230060021006003125004010302301214515512311471156
040120111106110240600220060031250040120230131145
1151651441501621410401111561430610340600320060003
1250040030230231451551231151147115604012211571157164
040103101040055040103061
END
SERIAL_NUMBER MULTILINE_OCTAL
0020130002503170000272304317062370103262
END
TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025\014\356\110\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\135\037\020\370\023\260\035\027\222\365\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061\023\060\022\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\010\03\103\040
\122\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After: Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After: Sun Dec 27 11:41:16 2037

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116
\216\002\113\002
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\000\02\212\375\077\363\130\271\131\040\360
END

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\011
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\011\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\013\101\040
\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Open Source Used in Crosswork Common EMS Services 4.0.0 9700
\060\020\127\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\011\115\161\143\056\061\050\060\046\006\003\125\004
\013\023\023\145\145\040\167\167\056\145\164\162\165
\163\164\056\156\145\164\165\164\155\157\162
\155\163\016\071\060\067\006\003\125\004\013\023\060\050\143\051\040
\062\060\061\065\040\010\05\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\033\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\127\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\011\115\161\143\056\061\050\060\046\006\003\125\004
\013\023\023\145\145\040\167\167\056\145\164\162\165
\163\164\056\156\145\164\165\164\155\157\162
\155\163\016\071\060\067\006\003\125\004\013\023\060\050\143\051\040
\062\060\061\065\040\010\05\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\033\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\0125
\145\255\130
END
CKA_VALUE MULTILINE_OCTAL
\060\020\061\113\060\022\020\004\063\240\003\002\001\002\000\021\000
\331\125\013\071\257\251\071\017\000\000\000\000\0125\145\255\130
\060\015\006\011\052\206\110\206\367\015\50\010\013\005\000\060
\201\127\062\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\000\03\125\004\012\023\015\051\156\164\162\165\163
\164\054\040\111\115\161\143\056\061\050\060\046\006\003\125\004\013
\023\037\123\145\145\040\167\167\056\145\156\164\162\165\163
\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162\155
\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051\040
\062\060\061\065\040\010\05\156\164\162\165\163\164\054\040\111\156
\143\056\050\055\040\146\157\162\040\141\165\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060\060
\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040\122

Open Source Used In Crosswork Common EMS Services 4.0.0 9701
# Trust for "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc."C=US

# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:55:65:ad:58

# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc."C=US

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

Open Source Used In Crosswork Common EMS Services 4.0.0 9703

# Trust for "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc."C=US

# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:55:65:ad:58

# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc."C=US

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US

# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\1\214\161\070\116\037\210
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\1\23\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\116\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\145\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\006\070\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\331\126\103\177\257\251\071\017\000\000\000\000\000\125
\145\255\130
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Microsoft ECC Root Certificate Authority 2017"

# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\010\035\171\162\160\157\162\141\164\151\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\010\035\171\162\157\164\040\010\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\151\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\015\146\060\010\030\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\010\035\171\162\160\157\162\141\164\151\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\010\035\171\162\157\164\040\010\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\151\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354
END
CKA_VALUE MULTILINE_OCTAL
\060\020\002\131\160\202\001\337\240\003\002\001\002\002\020\0146
\362\075\257\027\336\213\261\112\352\014\127\061\001\302\354\060
\012\006\010\052\206\110\316\075\004\003\030\060\145\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\036\060\034\060\003
\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103
\157\162\160\157\162\141\164\151\157\156\061\066\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\010\133\030\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\151\162\151
\164\171\040\062\060\061\067
END
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_MODE.MULTILINE_OCTAL
# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
# Certificate "Microsoft RSA Root Certificate Authority 2017"
#
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Serial Number:1e:d3:97:09:5f:d8:b4:b3
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\23\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354

CKA_ID UTF8 "0"
# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After: Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After: Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

CKA_CLASSES CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA_ISSUER MULTILINE_OCTAL
\163\146\164\040\122\123\101\040\122\157\157\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\127\011\137\330\264\263\107\160\036\252\276\177
\105\263

END
# Certificate "e-Szigno Root CA 2017"

# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):

# Certificate

### Certificate

**Subject**
```plaintext
CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
```

**Not Valid Before**
```plaintext
Tue Aug 22 12:07:06 2017
```

**Not Valid After**
```plaintext
Fri Aug 22 12:07:06 2042
```

**Fingerprint (SHA-256)**
```plaintext
```

**Fingerprint (SHA1)**
```plaintext
```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number: 01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number: 01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
Open Source Used In Crosswork Common EMS Services 4.0.0  9713


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\324\203\003\117\236\232\000\137\162\067\324\251\246\357
\313\174\037\321

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\037\366\236\204\256\247\264\041\316\036\130\175\125\124\230
\060\061\013\006\003\125\004\006\023\002\110\125\061
\021\060\170\060\003\125\004\007\014\010\02\165\144\141\160\145
\163\164\061\126\060\024\006\003\125\004\012\014\015\115\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\000\003
\125\004\141\140\101\126\101\124\110\125\055\062\063\065\070\064
\064\071\126\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062
\060\061\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\000\124\110\135\041\375\227\131\101\153\65\004\012

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "certSIGN Root CA G2"
# # Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# # Serial Number:11:00:34:b6:4e:c6:36:2d:36
# # Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# # Not Valid Before: Mon Feb 06 09:27:35 2017
# # Not Valid After : Thu Feb 06 09:27:35 2042
# # Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
# Trust for "certSIGN Root CA G2"

# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After: Thu Feb 06 09:27:35 2042

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

END

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "certSIGN Root CA G2"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243
\215\222\345\062

# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\131\224\267\367\145\040\207\303\227\307

# CKA_ISSUER MULTILINE_OCTAL
\060\101\061\130\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\120\231\013\005\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\03\101
\040\107\062

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066

END

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Trustwave Global Certification Authority"

# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL
# Trust for "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority, O="Trustwave Holdings, Inc.", L=Chicago, ST=Illinois, C=US
# Subject: CN=Trustwave Global Certification Authority, O="Trustwave Holdings, Inc.", L=Chicago, ST=Illinois, C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\066\003\125\004\010\014\010\111\115\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\010\157\154\144\151\156
\147\163\054\040\011\111\156\143\056\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\010\157
\142\141\154\040\103\145\162\164\151\146\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\032\011\363\010\065\056\272\262
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Trustwave Global ECC P256 Certification Authority"

#
# Trust for "Trustwave Global ECC P256 Certification Authority"
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Certificate "Trustwave Global ECC P384 Certification Authority"

# Issuer: CN=Trustwave Global ECC P384 Certification Authority, O="Trustwave Holdings, Inc.", L=Chicago, ST=Illinois, C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority, O="Trustwave Holdings, Inc.", L=Chicago, ST=Illinois, C=US
# Not Valid After: Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\0011\006\0003\125\004\006\023\002\125\123
\061\021\060\017\006\0003\125\004\010\023\010\111\154\154\151\156
\157\151\163\060\020\060\016\006\0003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\107\200\070\060\000\03\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\0011\006\0003\125\004\006\023\002\125\123
\061\021\060\017\006\0003\125\004\010\023\010\111\154\154\151\156
\157\151\163\060\020\060\016\006\0003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\107\200\070\060\000\03\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\205\022\154\231\047\244\001\150\107\073
END

CKA_VALUE MULTILINE_OCTAL
\060\020\122\061\013\060\0011\006\0003\125\004\006\023\002\125\123
\061\021\060\017\006\0003\125\004\010\023\010\111\154\154\151\156
\157\151\163\060\020\060\016\006\0003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\107\200\070\060\000\03\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
Open Source Used In Crosswork Common EMS Services 4.0.0  9725

# Trust for "Trustwave Global ECC P384 Certification Authority"
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\227\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\001\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\014\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\161\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "NAVER Global Root Certification Authority"
#
# Issuer: CN=NAVER Global Root Certification Authority, O=NAVER BUSINESS PLATFORM Corp., C=KR
# Subject: CN=NAVER Global Root Certification Authority, O=NAVER BUSINESS PLATFORM Corp., C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After: Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority, O=NAVER BUSINESS PLATFORM Corp., C=KR
# Subject: CN=NAVER Global Root Certification Authority, O=NAVER BUSINESS PLATFORM Corp., C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \217\153\362\251\047\112\332\024\240\304\364\216\141\047\371\300
\036\170\135\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \310\176\101\366\045\073\365\011\263\027\350\106\075\277\320\233
END
CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\001\11\006\003\125\004\006\023\002\011\12\015
\046\060\044\006\003\125\004\012\014\035\116\011\12\015\12\040

Open Source Used In Crosswork Common EMS Services 4.0.0  9729
The certificate is of the X.509 standard.

```plaintext
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
#
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

```
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\066\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\060\016\006\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\060\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\010\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
```

```
CKA_ID UTF8 "0"
```

```
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\013\060\001\100\060\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
```

```
```
# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q282604J, OU=Ceres, O=FNMT-RCM, C=ES


Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q282604J, OU=Ceres, O=FNMT-RCM, C=ES

Valid Before: Thu Dec 20 09:37:33 2018

Valid After: Sun Dec 20 09:37:33 2043

Fingerprint (SHA-256):

Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "GlobalSign Secure Mail Root R45"

# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045

Fingerprint (SHA-256):

Fingerprint (SHA1):

CA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CA_TOKEN CK_BBOOL CK_TRUE
CA_PRIVATE CK_BBOOL CK_FALSE
CA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "GlobalSign Secure Mail Root R45"

CA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CA_SUBJECT MULTILINE_OCTAL
06012206011013060011010600031250004006023002102105061
03106002700600031250004012023020107154157142141154
12315114715604015616605516314110610500600460060003
1250004003023037107154157142141154123151147156040
123145143165162145040115141151154040122157157164
040122060405
END

CA_ID UTF8 "0"

CA_ISSUER MULTILINE_OCTAL
06012206011013060011010600031250004006023002102105061
03106002700600031250004012023020107154157142141154
12315114715604015616605516314110610500600460060003
1250004003023037107154157142141154123151147156040
123145143165162145040115141151154040122157157164
040122060405
END

CA_SERIAL_NUMBER MULTILINE_OCTAL
0020201661233762501141202053237215062265035003217
1273343
END

CA_VALUE MULTILINE_OCTAL
06020200511600602020031130240003002001002002020166
123376250114120253237215062265035003217127334060
01500601105202061102063670150011010140050000060122
06110306001100600311250004006023002102105061031306003
127004012023020107154157142141154123151147156040
1271560401561660551631410610500600460060003125004
\060\015\006\011\052\206\110\206\367\015\001\001\014\000\050\000\003
\202\002\001\000\010\015\010\370\032\113\140\254\014\021\001\320\000\004\032\267
\377\127\121\111\013\014\333\366\044\045\067\373\253\236\355\014
\364\352\014\031\151\121\112\037\031\261\060\016\026\024\331\366\367\276
\306\025\227\133\105\366\021\014\072\060\014\041\143\011\237\131\130
\101\061\012\010\006\017\144\027\170\034\022\250\007\006\326\214\024\225
\251\133\077\323\173\136\117\374\030\027\050\033\372\266\053\026\043
\030\023\073\133\334\333\326\014\036\042\117\043\004\024\121\065\026\026
\171\001\007\060\134\057\227\343\236\366\010\014\246\343\333\325\021\323
\324\173\167\015\321\051\122\023\050\040\264\012\243\111\116\137\336
\301\136\165\043\374\307\074\170\011\176\060\170\057\242\060\124
\161\004\025\034\010\041\155\303\036\62\022\126\137\63\115\356\104\156
\020\1\000\030\015\060\052\000\127\177\253\011\142\003\077\015\021\344\017
\322\044\034\042\010\233\237\137\107\075\121\111\340\011\106\71\176
\027\041\006\116\060\267\147\161\110\050\011\130\045\327\020\350\237\141
\131\026\305\076\062\116\037\014\131\164\243\314\017\344\307\021\007
\002\190\077\001\100\101\050\001\104\327\110\031\012\252\031\075\153\350\152
\127\346\0277\263\152\071\251\127\343\361\117\145\150\266\275\237
\050\027\124\010\020\013\021\110\072\020\062\050\035\057\010\021\010\224
\000\034\060\012\307\105\55\241\017\136\244\140\126\317\171\132\272
\116\327\260\307\156\014\127\043\037\013\160\245\261\114\155\031
\111\126\016\177\160\217\161\077\110\030\050\327\165\335\141\140\007
\267\074\126\356\227\324\046\122\137\321\131\114\031\100\174\46\256
\227\356\215\046\101\127\273\170\360\172\120\060\011\126\014\025
\237\116\034\131\106\036\072\334\142\223\036\260\072\124\164\157
\054\060\105\032\115\50\106\062\152\150\166\366\075\366\152\023\136
\004\423\347\352\023\035\232\171\170\020\071\140\367\115\020\022\323\201
\232\105\125\036\257\233\334\200\037\103\262\022\150\244\303\016
\350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\012
\262\227\075\057\255\334\121\250\060\236\337\016\012\274\340\002\136\352
\014\500\042\343\134\000\243\116\160\174\222\343\004\321\012
\212\165\220\013\134\323\211\14\242\144\275\163\171\233\157\362
\263\301\166\074

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011 \175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\001\110\006\003\125\004\006\023\002\102\105\061 \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154 \123\151\147\156\040\150\166\055\163\141\061\050\060\046\006\003 \125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040 \123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164 \040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217 \127\334
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Secure Mail Root E45"
#
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\001\110\006\003\125\004\006\023\002\102\105\061 \031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154 \123\151\147\156\040\150\166\055\163\141\061\050\060\046\006\003 \125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040 \123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164 \040\122\064\065
END
# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
0305050370621171213372763762101211360223302304240
0531471651041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
030537430605623736412205505225024427223731470623771
END
CKA_ISSUER MULTILINE_OCTAL
06012206101306010110060031250004006023002102105061
0310600270060031250004012023020107154157142141154
123151147151604015616605516314106105006046060003
1250040030230371071541571421411541231511471516040
123145143165162145040115141151154040122157157164
040105064065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020060120260276327161104007634425332343161066022175
137114307352265151105063137323055132262344210307
33601206610206211712352461532723413711040512173121
03030220020610000240146034116207235207311355231114
0330123356051403303067307035315265162260331306357
27436237707733601223335010347252144171303344151127
22110572444313174
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0 9738
# Certificate "GlobalSign Root R46"

# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\060\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\132\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147\321
END
CKA_VALUE MULTILINE_OCTAL
\060\022\020\005\132\060\020\003\102\240\003\002\001\002\002\022\021
\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147
\321\060\015\006\011\052\206\110\206\367\015\001\014\005\000
\060\016\006\013\060\001\110\060\033\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END

Open Source Used In Crosswork Common EMS Services 4.0.0 9739
BEGIN
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"

END
# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\060\010\103\060\001\100\060\003\125\004\006\23\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\106\103\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END

CKA_ID UTF8 "0"
# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):

cka_nss_email_distrust_after ck_bbool ck_false
cka_class ck_object_class cko_nss_trust
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "GlobalSign Root E46"
cka_cert_sha1_hash multiline_octal
\071\264\154\325\376\200\006\353\342\057\112\273\010\224\315\306\341\143\158\130\163\044\126\035\065\143\041\062\064\044\022\036\066\002\002\011\035\067\124\155\126\126\002\002\001\063\154\151\130\045\020\030\032\002\002\011\024\001\061\157\044\023\001\060\161\141\120\166\153\044\041\002\023\002\001\062\001\067\040\066\121\122\035\030\001\036\021\010\024\031\063\154\002\002\011\035\067\124\155\126\126\002\002\001\063\154\151\130\045\020\030\032\002\002\011\024\001\061\157\044\023\001\060\161\141\120\166\153\044\041\002\023\002\001\062\001\067\040\066\121\122\035\030\001
cka_cert_md5_hash multiline_octal
\265\146\355\133\366\010\203\343\311\342\001\064\006\254\121\157\146\355\133\366\010\203\343\311\342\001\064\006\254\121\157
ckaIssuer multiline_octal
\060\106\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\017\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\105\064\066
cka_serial_number multiline_octal
\002\022\021\322\273\272\063\156\324\274\346\044\150\305\015\204\035\230\350\103
ckaTrust_server_auth ck_trust ckT_NSS_Trusted_DeleGator
ckaTrust_email_protection ck_trust ckT_NSS_Must_Verify_Trust
ckaTrust_code_signing ck_trust ckT_NSS_Must_Verify_Trust
ckaTrust_step_up_approved ck_bbool ck_false

# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\017
\114\171\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\101\124\061
\043\060\041\006\003\125\004\012\023\032\145\055\143\157\155\155
\145\162\143\145\040\155\157\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\017
\114\171\102\101\114\124\122\125\123\124\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\132\113\275\132\373\117\212\133\372\145\345
END
CKA_VALUE MULTILINE_OCTAL
\060\020\013\132\113\275\132\373\117\212\133\372\145\345
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ANF Secure Server Root CA"
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
# Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de
# Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
END

CKA_ISSUER MULTILINE_OCTAL
END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\137\116\040\122\141\151\172\061\042\060\040\060\033\125\004\000\123\011\017\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\056\033\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\010\116\106\040\103\100\040\122
\141\151\172\061\042\060\040\060\033\125\004\003\023\031\011\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040

# Fingerprint (SHA-256):
# Certificate "Certum EC-384 CA"

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\014\114\161\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\151\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101

END
# Trust for "Certum EC-384 CA"
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361
END
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\041\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\042\321\305\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\155\155\040\103\145\162\164\151\164\151\143\141\164\151\157
\156\040\101\165\164\151\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\006\367\353\125\117
\265\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "TunTrust Root CA"
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL

\060\041\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\013\145
\162\164\151\146\151\143\141\164\151\157\156\040\015\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\013\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\041\061\013\060\011\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\013\145
\162\164\151\146\151\143\141\164\151\157\156\040\015\154\145\143
\164\162\157\156\151\161\165\145\061\031\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\013\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\022\003\233\240\003\002\001\002\002\024\023
\002\325\342\100\114\222\106\206\147\135\264\273\273\262\153
\076\374\023\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\014\061\013\060\011\006\003\125\004\006\023\002\124
\116\061\067\060\065\006\003\125\004\012\014\056\101\147\145\156
\143\145\040\116\141\164\151\157\156\141\154\145\040\144\145\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\015\154
\145\143\164\162\157\156\151\161\165\145\061\031\060\027\006\003
\125\004\003\014\020\124\165\156\124\162\165\163\164\040\122\157
\157\164\040\013\101\060\036\027\015\061\071\060\064\062\066\060
\070\065\069\065\066\132\027\015\064\064\060\064\062\066\060
\065\067\065\066\132\060\141\061\013\060\011\006\003\125\004\006
\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101
\147\145\156\141\143\145\040\116\141\164\151\157\156\141\154\145\040
\144\145\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\105\154\145\143\164\162\157\156\151\161\165\145\061\031\060
\027\006\003\125\004\003\014\020\124\165\156\124\162\165\163\164
\040\122\157\157\164\040\013\101\060\020\002\042\060\015\006\011
\052\206\110\206\036\071\015\001\000\005\000\003\202\002\017\000
\063\020\002\012\000\202\002\001\000\033\132\334\124\275\004\123
\335\014\040\072\325\210\005\060\005\131\013\013\013\013\013\013
\071\236\236\143\350\163\332\036\117\037\264\371\013\030
\071\124\323\020\176\160\063\324\123\354\064\331\106\274\165\133\207
\210\360\332\331\324\243\012\126\215\033\753\110\054\076\254\135
\380\22\003\24\035\564\064\343\060\034\065\175\037\046\115\033\156
Open Source Used In Crosswork Common EMS Services 4.0.0 9760
# Trust for "TunTrust Root CA"

**Issuer:** CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN


**Subject:** CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN

# Not Valid Before: Fri Apr 26 08:57:56 2019

# Not Valid After: Tue Apr 26 08:57:56 2044

**Fingerprint (SHA-256):**

```bash
```

**Fingerprint (SHA1):**

```bash
```

## CKA_CLASS

CKO_NSS_TRUST

## CKA_TOKEN

CK_TRUE

## CKA_PRIVATE

CK_FALSE

## CKA_MODIFIABLE

CK_FALSE

## CKA_LABEL

UTF8 "TunTrust Root CA"

## CKA_CERT_SHA1_HASH

```
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273
```

## CKA_CERT_MD5_HASH

```
\205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264
```

## CKA_ISSUER

```
\060\141\061\013\060\001\100\060\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
```

### CKA_NSS_MOZILLA_CA_POLICY

CK_TRUE

### CKA_NSS_SERVER_DISTRUST_AFTER

CK_FALSE

### CKA_NSS_EMAIL_DISTRUST_AFTER

CK_FALSE
# Trust for "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"

---

# Trust for "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
# Certificate "HARICA TLS ECC Root CA 2021"
#
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316

END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\124\060\202\001\333\240\003\002\001\002\002\020\147
\164\235\215\167\330\073\152\333\042\364\377\131\342\277\316
\012\006\010\052\206\110\316\075\004\003\003\060\154\061\103\060
\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061

END
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After: Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135
\156\356\001\110
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\000\003\125\004\012\014\056\110\145\154\154\156
\151\143\040\111\143\144\144\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\110\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA Client RSA Root CA 2021"
#
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\066\011\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\000\003\125\004\012\014\056\110\145\154\154\156
\151\143\040\111\143\144\144\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\110\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
\156\163\164\151\164\165
# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):

```c
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\274\364\145\255\254\374\343\367\007
000156:336:156

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\135\333\331\135\333\330\355

CKA_ISSUER MULTILINE_OCTAL
\106\157\061\101\060\001\100\060\033\125\004\006\023\002\107\122\061
\067\060\065\000\003\125\004\012\140\056\110\145\154\145\156
\151\143\040\101\143\144\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
```
# Certificate "HARICA Client ECC Root CA 2021"

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122\123\101\1040\122\157\157\164\040\103\101\1040\062\060\062\061\END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122\123\101\1040\122\157\157\164\040\103\101\1040\062\060\062\061\END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164\040\122\123\101\1040\122\157\157\164\040\103\101\1040\062\060\062\061\END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002\050\076

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
# Trust for "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

END

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

END

# CKA_ID UTF8 "0"

END

# CKA_ISSUER MULTILINE_OCTAL

END

# CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

# CKA_VALUE MULTILINE_OCTAL

END
Open Source Used In Crosswork Common EMS Services 4.0.0 9777
\000\006\101\000\006\077\000\060\000\016\000\003\125\035\017\001\001\377\004\004
\003\002\000\001\006\060\015\000\061\010\026\066\110\026\367\015\001\001
\013\005\000\000\003\020\002\001\000\000\016\020\070\050\002\053\167\037\146
\211\144\355\217\164\056\016\034\273\250\037\070\013\035\203\266
\072\247\350\010\052\121\007\026\340\076\040\031\341\010\333\023\010
\370\050\241\065\262\200\263\013\121\300\032\126\232\215\063\101
\111\257\111\136\030\40\075\007\172\105\023\132\037\031\227\330\323
\030\054\175\226\370\035\042\145\103\160\223\222\220\025\272\222\0337
\350\030\126\003\033\054\212\140\017\267\157\224\000\073\036\035\246\311
\205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\201
\251\020\324\226\101\127\337\010\374\041\010\362\261\261\020\117
\172\362\367\240\340\034\217\213\170\265\073\130\245\043\216\117
\125\376\066\073\334\014\267\312\052\060\010\010\040\264\200\315\256
\374\166\146\163\250\256\156\341\174\332\003\350\224\040\346\042
\243\320\037\220\035\040\123\024\046\127\332\124\227\337\026\104
\020\000\103\062\110\146\217\162\070\022\335\040\267\064\276\327\361
\356\143\216\107\171\050\006\374\363\131\110\054\140\042\063\033
\243\137\275\022\052\332\032\075\315\003\352\214\345\036\005\025\225
\325\245\054\040\057\247\230\050\356\105\057\346\127\020\000\054
\217\102\332\121\325\234\345\023\150\161\110\010\323\236\013\041
\074\113\134\005\334\032\022\237\230\021\163\232\275\042\236\102\315\255
\012\313\314\243\147\233\050\164\304\023\332\037\032\074\004\130\206
\202\235\255\070\173\157\377\020\022\351\137\021\152\275\030\022
\035\377\111\013\322\200\122\067\223\057\074\002\135\202\166\013\112
\347\026\307\127\337\070\037\124\315\233\042\124\357\143\326\005
\155\121\145\003\112\136\112\240\026\262\247\161\110\000\131\130\070\325
\307\364\200\144\365\156\225\120\270\021\176\025\160\070\112\260
\177\320\304\062\160\300\031\377\311\070\055\024\054\146\364\102
\104\346\125\156\033\002\005\127\377\030\024\247\252\071\125\230
\323\160\320\050\267\232\332\224\152\372\137\064\206\347\142\265\375
\121\360\060\025\224\311\125\044\002\057\157\326\335\147\376\343
\126\015\117\004\230\117\244\101\126\342\223\320\152\350\326\363
\373\145\340\031\165\034\061\131\140\356\202\310\014\140\040\313\112
\031\127\202\041\147\047\017\274\102\135\275\044\124\015\354\035\160
\006\137\244\274\372\040\174\125
END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number: 170c:9d:2d:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\141\144\040\144\145\040\103\145\162\164\141\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\060\113\100\006\003\125\004\006\002\033\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\141\144\040\144\145\040\103\145\162\164\141\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT NSS MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC X 509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\103\060\001\110\066\003\125\004\006\023\002\103\116\061
# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
3660234333/260374366002/023/266122/062/246/243/221/077/026
160332303/341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
\160\332\303\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\203\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\105\103
\103\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\244\156\152\274\131\125\212\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "vTrus Root CA"
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "vTrus Root CA"
# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\032\151\373\365\315\032\045\064\023\075\173\370\034\051\252\375\230\256\122\341\363\101
\122\373\251\056\016\226\237\047\343\252\163\175\370\032\043\146
\173\073\253\145\260\062\001\113\025\076\075\242\117\014\053\065
\242\206\331\147\022\206\056\060\315\166\056\026\263\231\123\115\117
\116\055\073\250\064\013\341\232\016\015\244\146\227\272\322\034\112
\114\054\052\213\213\201\117\161\032\251\133\135\134\173\173\010\035
\000\015\067\100\034\174\173\124\137\057\205\137\166\366\367\247
\260\034\127\126\031\162\350\255\242\257\215\063\111\272\037\212
\334\346\164\174\140\206\157\207\227\173
END
# Certificate "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END}

CKA_ISSUER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
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END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202001010132232532111623235325624720003010541154351057
207122

END

CKA_VALUE MULTILINE_OCTAL
06020200000733060202000124122480003002001002002002001001
3222353211623235235624720003010541154351057207122060
012000600100520206110031607500400300030600117061013060
011100060312500400602300212511230610510600470066003
1250040120123040411111561641451621561451640401123145
1431651621511641710401221451631451411621431150040
1071621571651640161025060023006003125004003023104
111112312210704041221157116404011300620600360271015
0620600060711060040600600600600600600132027015064
06006000701011670611066006006006001320600117061013
060011000600312500400602300212512306101501060047006
00311250040120230401111561641451621561451640401123
14516316516215111641710401221451631451411621431150
04010716215716516006102506002300600312500400403023
01411112312210704041221157116404011300620600166006
020000600075020611011670500200100060503201004000
042003142200000431523332352372002031012354011112363
0261120761194317116712543361470050150350072660334026
13701132121024333342116111013042721052250212111216352
0060337336705202603424427111305305062340003344006206
030090702133132770533001121521563466001673730021211175
04233001211562321331673373603721011354071334165312
1500007104190373524310206200100060016606003125035017
0010010377004004003002030101060001706003125035023
0010010377004005060003001001377060303560603125035
01600040260040241741020226226533611311007337222370
236214313171555213251162076225060102006010052060110
316075004003000300315000006045002060173171116106
1202043201040270106033105160137711302311336364335244
3222112246004005516432620642741012431201370001047126
26427604711650062570220561652302153740020610000213
3651671543243110145252340013054356024235047067244
3711212451213440512033273702206011331023237012365
37625600011503472141110172661157113310235362347

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\125\370\333\225\307
\132\321\123\257
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\001\100\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\030\054\154\351\057
\207\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\031\150\165\156\147\150
\167\114\040\124\145\154\143\157\155\040\013\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\013\010\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\031\150\165\156\147\150
\167\114\040\124\145\154\143\157\155\040\010\157\056\054\040
\141\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\013\010\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\020\005\152\060\020\202\003\122\240\003\002\001\002\002\020\055
\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END


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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After: Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END

CKA_ISSUER MULTILINE_OCTAL
\060\017\061\013\060\011\006\003\012\000\004\006\023\002\124\127\061
\043\060\041\060\003\012\000\004\012\014\032\203\150\165\156\147\150
\167\141\040\124\145\154\143\157\155\040\103\157\056\054\040
\114\164\140\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\205\055\335\254\316\142\227\224\227\224\241\103\350\260\315\166\152
\361\140
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GlobalSign ECC Root CA - R4"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\003\012\000\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\010\033\013\030\040\122\157\157\164
\040\013\010\040\055\040\122\064\061\023\060\021\006\003\125\004
\102\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\004\020\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\010\033\013\030\040\122\157\157\164
\040\013\010\040\055\040\122\064\061\023\060\021\006\003\125\004
\102\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END

CKA_VALUE MULTILINE_OCTAL
\060\202\001\334\060\202\001\203\240\003\002\001\002\002\015\002
\003\345\176\365\077\223\375\245\011\041\262\246\060\012\006\010
\052\206\103\166\075\004\003\002\060\120\061\044\060\042\012
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\105\103\010\040\040\122\157\157\164\040\103\101\044\005\040
\122\064\061\023\060\021\006\003\125\004\003\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\015\061
\061\016\061\071\060\063\061\064\060\066\067\132\060\120\061\044\060\042
\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\114
\156\040\105\103\010\040\122\157\157\164\040\103\101\044\005\040
\122\064\061\023\060\021\006\003\125\004\012\023\012\107\154\157
\142\141\154\123\151\147\156\060\123\060\021\006\003\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023
\006\009\052\206\110\316\075\002\001\006\010\052\206\110\316\075
\003\001\007\003\102\000\004\270\036\171\323\217\154\045\016\237
\056\071\031\034\003\244\256\232\334\071\007\011\026\312\143\261
\271\206\370\012\127\301\127\316\102\372\163\241\367\145\102\377
\036\010\000\262\156\163\016\377\307\041\134\350\302\244\252\331\161
\077\250\324\271\316\124\035\243\102\060\100\060\160\060\003\125
\035\017\001\010\137\004\004\003\002\001\120\060\017\006\003\125
\035\023\001\001\137\004\005\060\003\001\001\137\000\060\356\016\003
\125\035\016\004\026\004\024\124\260\173\255\105\270\342\100\177
\373\012\156\373\372\276\063\311\074\243\204\325\060\012\006\010\052
\206\110\316\075\004\003\002\003\107\000\060\104\002\040\042\117
\164\162\271\140\025\361\134\234\240\260\055\120\137\303\136\073
\156\141\164\357\276\001\130\042\276\030\110\131\141\202\062\002\040
\046\235\124\143\100\136\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number: 02:03:e5:3f:fd:a5:09:21:b2:a6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0 9793

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153
\235\331\121\112

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100

CKA issuer MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061

CKA SERIAL NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\126\023\111\210\153\242\027

CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
CKA TRUST STEP UP APPROVED CK BBOOL CK FALSE
# Certificate "GTS Root R2"

# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\006\003\125\004\006\023\002\125\123\061\042\060\040
\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\14\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\14\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011
\052\206\110\206\367\015\001\014\005\000\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\14\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\062\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\013\207\015\063\060\066\062\062\060\060\060
\060\060\060\013\207\015\060\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\124
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
# Certificate "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\036\107\061\013\060\031\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145

END
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\060\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\011\060\020\001\126\240\003\002\010\124\162\165\163\164\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\122\157\157\164\040\122\162\165\163\164\040\123
\145\162\166\151\143\145\163\040\114\114\103\061\024\060\022\006
\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\063\060\036\027\015\061\066\060\060\062\062\060\060\060\060\060
\060\013\020\070\015\063\060\060\060\060\060\060\060\060\060
\132\060\107\060\013\060\001\006\003\125\004\006\023\002\125\123
\061\042\060\004\060\006\003\125\004\012\023\031\010\157\157\147\154
\145\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\060\003\125\004\003\023\013\107
\124\123\040\122\157\157\164\040\122\063\060\060\060\060\060\060
\052\006\110\316\075\002\001\060\005\053\201\004\000\042\003\142
\000\000\004\037\117\063\207\063\051\012\212\214\024\336\313\307\041\130
\101\111\352\126\235\053\113\205\036\035\114\047\274\177\046\121
\162\157\342\237\326\243\132\131\050\024\106\213\255\357\176\206
\214\354\261\176\057\377\251\161\235\030\204\105\004\010\125\156
\053\352\046\177\273\232\200\013\343\113\031\127\234\124\226\215\011
\261\132\154\221\110\425\255\020\023\216\232\214\015\200\014\062\2366
\340\047\243\110\206\060\100\060\016\060\003\125\035\017\001\001\377
\004\004\003\002\000\126\060\017\000\000\001\001\377
\004\005\060\003\001\010\137\060\035\006\003\125\035\023\001\001\377
\004\005\005\060\000\003\001\001\137\060\035\006\003\125\035\016\004\026
\004\004\024\301\136\104\062\272\240\055\256\205\201\137\323\361\052\022
\275\257\010\121\473\375\274\060\012\060\010\052\206\110\316\167\050\004
\003\003\003\001\151\000\060\146\002\026\061\003\006\341\040\225\024\173
\124\243\222\026\020\217\277\204\310\352\157\133\027\236\036\106\230
\040\023\123\327\323\015\133\125\323\323\057\315\174\370\133\056\125\273
\277\335\222\367\244\014\334\061\341\242\002\061\100\037\4227\146
\146\345\103\026\023\203\333\350\373\337\057\276\024\070\355\001\131
\261\017\032\016\115\312\257\003\217\046\176\204\345\311\140\246
\225\327\124\131\267\347\021\054\211\324\271\135\027
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “GTS Root R3”
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US

Open Source Used In Crosswork Common EMS Services 4.0.0 9800
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\103\066\001\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\002\220\066\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\203\353\040\370\045\047\155\075\146
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R4"
#
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:00:68:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\070\141\337\174\341\073
\222\106\115\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\161\165\163\164\040\123\145\162\166\151\114\143\145\163\040
\114\114\103\060\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\143\300\135\143\032\234\162\220\120\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Telia Root CA v2"

# Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
# Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
# Not Valid Before: Thu Nov 29 11:55:54 2018
# Not Valid After : Sun Nov 29 11:55:54 2043
# Fingerprint (SHA-256):

#CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
#CKA_TOKEN CK_BBOOL CK_TRUE
#CKA_PRIVATE CK_BBOOL CK_FALSE
#CKA_MODIFIABLE CK_BBOOL CK_FALSE
#CKA_LABEL UTF8 "Telia Root CA v2"

#CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

#CKA_ID UTF8 "0"

#CKA_ISSUER MULTILINE_OCTAL

END

#CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

#CKA_VALUE MULTILINE_OCTAL

END

#CKA_VALUE_MULTILINE_OCTAL

END

#CKA_SERIAL_NUMBER_MULTILINE_OCTAL

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Telia Root CA v2"
# Issuer: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
# Subject: CN=Telia Root CA v2,O=Telia Finland Oyj,C=FI
# Not Valid Before: Thu Nov 29 11:55:54 2018
# Not Valid After : Sun Nov 29 11:55:54 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Telia Root CA v2"
# Certificate "D-TRUST BR Root CA 1 2020"

# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After: Sun Feb 11 09:44:59 2035

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005 \236
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005 \236
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "D-TRUST BR Root CA 1 2020"
# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Subject: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 09:45:00 2020
# Not Valid After : Sun Feb 11 09:44:59 2035
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST BR Root CA 1 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\133\230\360\343\265\074\355\346\260\066\175\062\315\364\011\101\147
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\013\132\360\265\376\164\074\355\346\260\066\175\062\315\364\011\101\147
CKA_ISSUER MULTILINE_OCTAL
\060\110\006\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012\023\014\104\055\124\162\165\163\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023\031\104\055\124\122\125\123\124\040\102\122\040\122\157\157\164\040\103\101\040\061\040\062\060\062\060
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\174\311\127\053\204\327\337\352\017\311\145\232\233\113\115\226
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "D-TRUST EV Root CA 1 2020"

# Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:5f:02:41:d7:7a:87:7c:4c:03:a3:ac:96:8d:ff:d0
# Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 10:00:00 2020
# Not Valid After : Sun Feb 11 09:59:59 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST EV Root CA 1 2020"

END

CKA_ID UTF8 "0"

END

END

END

END

END

END

END

END

END

END

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST EV Root CA 1 2020"
# Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Serial Number:5f:02:41:d7:7a:87:7c:4c:03:ac:96:8d:fb:ff:d0
# Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Certificate "DigiCert TLS ECC P384 Root G5"

# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\333\214\041\131\151\003\220\330\174\234\022\206\124\317\235\075\364\335\007
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\055\235\160\237\110\231\021\006\021\373\351\131\060\300\156
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\104\050\061
\025\060\023\006\003\125\004\012\023\014\010\055\124\162\165\163
\164\040\107\155\142\110\061\042\060\040\006\003\125\004\003\023
\031\104\055\124\122\125\123\124\040\105\126\040\122\157\157\164
\040\103\101\040\061\040\062\060\062\060
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\002\101\327\172\207\174\114\003\243\254\226\215\373\377\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert TLS ECC P384 Root G5"
# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:09:e0:93:65:ac:b7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS ECC P384 Root G5"
CKA_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Open Source Used In Crosswork Common EMS Services 4.0.0 9814
# Certificate "DigiCert TLS RSA4096 Root G5"

# Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\040\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\040\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174\317\212
END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\010\371\264\170\250\372\176\332\152\063\067\211\336\174\317\212
END


```
\031\162\036\243\311\207\376\251\103\144\226\072\310\123\004\012
\266\101\273\034\107\000\331\237\030\030\073\262\016\363\064\352
\043\67\335\257\040\140\256\222\050\137\066\347\135\344\336\307
\074\333\120\071\255\273\075\050\115\226\174\166\306\133\364\301
\333\024\245\253\030\314\200\070\030\100\137\227\221\334\234\307\253
\265\012\105\346\151\123\125\314\107\175\332\305\021\125\162\230
\073\213\211\370\064\055\244\027\345\027\346\231\175\060\210\041
\067\315\060\060\027\075\270\362\274\250\165\240\103\334\076\211\113
\220\025\155\003\340\040\033\042\243\240\226\011\127\175\243\267\052\020
\104\113\106\007\064\143\355\061\127\100\043\356\243\233\232\256\346
\061\170\364\352\044\141\073\253\130\144\377\273\070\047\142\045
\201\137\334\241\057\366\355\247\377\172\217\121\056\060\370\244
\001\132\205\071\137\000\123\124\226\157\132\133\160\033\110\63\76\206
\140\076\255\200\020\011\133\071\010\45\057\130\177\273\322\164\360
\367\106\037\100\071\112\330\012\323\036\306\073\161\124\53\324\157
\374\363\147\344\007\217\335\046\031\341\121\153\372\243\223\021
\223\351\130\072\303\125\150\232\222\234\112\221\166\070\350\341\272
\275\053\117\173\235\357\263\347\110\203\063\160\202\041\343\266\026
\247\253\157\357\237\337\114\317\000\127\014\152\043\075\347\011
\115\200\033\173\060\244\303\355\073\177\064\276\244\046\262\236
\101\135\011\035\343\040\203\252\067\117\377\367\361\342\051\116
\061\110\077\164\320\024\026\372\041\212\002\325\212\011\224\167
\086\362\131\050\213\174\120\222\012\146\170\070\203\165\304\265
\132\225\020\136\345\301\235\146\253\171\233\304\257\327\165\205
\251\020\231\126\354\041\167\201\223\132\014\352\226\331\111\312
\241\103\362\227\073\155\233\004\030\044\104\216\174\001\136\233
\045\530\136\206\232\261\071\333\365\221\062\152\321\246\160\212
\242\367\336\244\105\205\046\250\036\241\135\051\133\310\113\330
\123\152\003\136\160\036\205\117\154\113\150\057\312\124\366\014
\332\062\376\303\153\203\077\070\306\176
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert TLS RSA4096 Root G5"
# Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Subject: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
CKA_CLASS CKOBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```

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CKA_LABEL UTF8 "DigiCert TLS RSA4096 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\247\210\111\334\135\174\165\214\214\336\071\230\126\263\252\320
\262\245\161\065
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\376\367\064\226\125\174\263\126\022\113\344\047\101\157\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\060\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\124\114\123\040
\122\123\101\064\060\071\066\040\122\157\157\164\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\371\264\170\250\327\217\322\152\063\067\211\336\174
\317\212
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert SMIME ECC P384 Root G5"
#
# Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\060\003\125\004\012\023\016\104\151\147\151\103\145
\162\164\054\040\111\156\143\056\061\045\060\043\006\003\125\004
\003\023\034\104\151\147\151\103\145\162\164\040\123\114\123\040
\122\123\064\060\071\066\040\122\157\157\164\040\107\065
\107\065
# Trust for "DigiCert SMIME ECC P384 Root G5"
# Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Subject: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME ECC P384 Root G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\034\027\270\247\010\040\262\066\077\022\036\105\177\121\076\364\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\376\364\122\066\104\330\356\015\267\003\013\357\164\263\003
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\066\111\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\104\151\147\151\157\145
\162\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\003\023\037\104\151\147\151\103\145\162\164\040\123\115\111\115
\105\040\105\103\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\077\156\240\006\001\162\175\355\077\303\243\266\024
\326\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert SMIME RSA4096 Root G5"
#
# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Trust for "DigiCert SMIME RSA4096 Root G5"

# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Subject: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert SMIME RSA4096 Root G5"
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\321\173\340\265\077\065\162\237\175\276\013\245\244\035\251\156
END

CKA_ISSUER_MULTILINE_OCTAL
\060\017\061\013\060\001\11\006\003\012\004\006\023\002\012\023\012\016\014\015\014\015\103\145
\162\145\054\040\111\156\143\056\061\047\060\045\006\003\012\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\011\151
\016\040\122\123\010\064\060\071\066\040\122\157\157\164\040\107
\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\313\175\134\346\271\133\272
\034\125
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certainly Root R1"
#
# Issuer: CN=Certainly Root R1,O=Certainly,C=US
# Subject: CN=Certainly Root R1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After : Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\017\061\013\060\001\11\006\003\012\004\006\023\002\012\023\012\016\014\015\014\015\103\145
\162\145\054\040\111\156\143\056\061\047\060\045\006\003\012\004
\003\023\036\104\151\147\151\103\145\162\164\040\123\011\151
\016\040\122\123\010\064\060\071\066\040\122\157\157\164\040\107
\065
END

Open Source Used In Crosswork Common EMS Services 4.0.0 9824
Open Source Used In Crosswork Common EMS Services 4.0.0  9826

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "Certainly Root R1"
# Issuer: CN=Certainly Root R1,O=Certainly,C=US
# Subject: CN=Certainly Root R1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After : Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\240\120\356\017\050\161\364\047\262\022\155\157\120\226\045\272
\314\206\102\257
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\007\160\324\076\202\207\240\372\063\066\023\364\372\063\347\022

CKA_ISSUER MULTILINE_OCTAL
\060\075\013\060\011\006\003\125\004\006\023\022\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\003\006\031\125\004\003\023\022\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\122\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\216\017\371\113\220\161\150\145\063\124\364\324\104
\071\267\340

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certainly Root E1"
#
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# Subject: CN=Certainly Root E1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After : Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root E1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\031\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\103\145\162\164\141\151
\156\154\171\061\032\060\030\006\031\125\004\003\023\021\103\145
\162\164\141\151\156\154\171\040\122\157\157\164\040\105\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\006\045\063\261\107\003\063\047\134\371\215\232\271\277
\314\370
END
CKA_VALUE MULTILINE_OCTAL
\060\020\001\136\706\020\020\111\175\240\003\002\000\010\002\002\020\006
\045\063\261\107\003\063\047\134\371\125\232\271\277\314\370
\012\006\019\052\020\061\010\136\705\004\003\060\075\061\103\060
\011\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003
\125\004\012\023\011\103\145\162\164\141\151\156\154\171\061\103
\060\030\006\031\125\004\003\023\021\103\145\162\164\141\151\156
\154\171\040\122\157\157\164\040\105\061\106\030\027\015\062\061
\060\064\060\061\060\060\060\060\060\060\060\060\060\060\060\132\027\15\064\066\060
\064\090\060\010\060\060\060\060\060\060\132\060\075\061\013\060\011
\006\003\125\004\006\023\002\125\123\061\022\060\020\006\003\125
\004\012\023\111\103\145\162\164\141\151\156\154\171\061\103\060
\030\006\003\125\004\003\023\021\103\145\162\164\141\151\156\154
\171\104\122\157\157\164\040\105\061\060\060\020\006\007\052
\206\110\136\075\002\001\010\060\055\053\210\004\000\042\003\142\000
\004\036\157\370\177\034\333\375\357\117\027\020\062\261\124\300\012
\137\020\227\200\035\221\173\10\112\136\052\175\210\150\247\001\142
\024\221\044\172\134\236\023\027\175\212\060\041\064\030\120\033
\020\036\320\067\113\046\037\031\140\200\351\064\275\1400\031\066
\100\326\051\207\011\074\221\172\366\274\023\043\335\113\116\004
\136\031\100\020\034\030\123\301\061\133\032\040\351\104\215\344
\166\243\102\060\010\060\016\060\031\125\035\170\01\001\077\004
\004\003\002\001\006\060\017\006\003\125\035\023\001\001\077\004
\005\060\003\001\001\077\006\035\006\003\125\035\016\004\260\004


CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certainly Root E1"
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# Subject: CN=Certainly Root E1,O=Certainly,C=US
# Not Valid Before: Thu Apr 01 00:00:00 2021
# Not Valid After: Sun Apr 01 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certainly Root E1"
CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

END

Open Source Used In Crosswork Common EMS Services 4.0.0 9829
# Certificate "E-Tugra Global Root CA RSA v3"

# Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:07:17 2020
# Not Valid After : Sun Mar 12 09:07:17 2045

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\001\100\201\200\063\012\004\006\023\002\124\122
\061\017\006\015\006\003\012\004\007\023\006\101\156\153\141\162
\141\061\030\060\027\060\003\012\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\012\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\104\040\122\123\101
\040\166\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\001\100\201\200\063\012\004\006\023\002\124\122
\061\017\006\015\006\003\012\004\007\023\006\101\156\153\141\162
\141\061\030\060\027\060\003\012\004\012\023\020\105\055\124\165
\147\162\141\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\012\004\003\023\035\105\055\124\165\147\162\141\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\101\104\040\122\123\101
\040\166\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\015\115\305\315\026\042\225\226\010\176\270\013\177\025
\006\064\373\171\020\064
END

CKA_VALUE MULTILINE_OCTAL

Open Source Used In Crosswork Common EMS Services 4.0.0 9830
# Trust for "E-Tugra Global Root CA RSA v3"
# Issuer: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Subject: CN=E-Tugra Global Root CA RSA v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:07:17 2020
# Not Valid After: Sun Mar 12 09:07:17 2045
# Fingerprint (SHA-256):
cka_class ck_object_class CKONSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "E-Tugra Global Root CA RSA v3"
cka_cert_sha1_hash MULTILINE_OCTAL
\351\250\135\042\024\122\034\133\252\012\264\276\044\152\043\212
\311\272\342\251
cka_cert_md5_hash MULTILINE_OCTAL
\042\276\020\366\302\370\003\210\163\137\063\051\107\050\107\244
cka_issuer MULTILINE_OCTAL
\v06\201\200\061\013\060\011\006\003\125\004\006\023\002\124\122
\v06\17\060\015\006\003\125\004\007\023\006\101\156\153\141\162
\141\061\03\100\027\006\003\125\004\012\023\020\055\124\165
\147\162\14\040\105\102\107\040\101\056\123\056\061\035\060\033
\006\003\125\004\013\023\024\105\055\124\165\147\162\141\040\124
\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006
\v00\312\004\030\023\035\105\055\124\165\147\162\14\040\107\154
\157\142\141\154\040\122\157\157\164\040\103\010\040\122\123\101
\v04\016\063
cka_serial_number MULTILINE_OCTAL
\v00\202\04\015\115\305\315\026\042\225\226\010\176\270\013\177\025
\006\064\373\171\020\064
cka_trust_server_auth ck_trust CKT_NSS_TRUSTED_DELEGATOR
ccka_trust_email_protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
ccka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
ccka_trust_step_up_approved CK_BBOOL CK_FALSE
# Certificate "E-Tugra Global Root CA ECC v3"

# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:46:58 2020
# Not Valid After: Sun Mar 12 09:46:58 2045

# Certificate "E-Tugra Global Root CA ECC v3"
END

# Trust for "E-Tugra Global Root CA ECC v3"
# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR

Open Source Used In Crosswork Common EMS Services 4.0.0 9835
# Subject: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# Not Valid Before: Wed Mar 18 09:46:58 2020
# Not Valid After : Sun Mar 12 09:46:58 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA ECC v3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\057\257\127\123\261\260\346\241\004\354\133\152\151\161\155\366\034\342\204
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\274\201\273\361\265\036\367\113\226\274\024\342\347\047\144
END

CKA_ISSUER MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\007\023\006\101\156\153\141\162\141\061\031\060\027\006\003\125\004\012\023\024\010\055\124\165\147\162\141\040\124\162\165\163\164\040\103\145\156\164\145\162\061\046\060\044\006\003\125\004\003\023\035\105\055\124\165\147\162\141\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101\040\105\103\103\040\166\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\046\106\031\167\061\134\117\157\050\066\336\071\121\206\346\324\227\210\042\301
END

CKA_TRUST_SERVERAUTH CK_BBOOL CK_TRUE
CKA_TRUST_EMAIL_PROTECTION CK_BBOOL CK_TRUE
CKA_TRUST_CODE_SIGNING CK_BBOOL CK_TRUE
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/1376394069_1659497040.3993607/0/ca-certificates-20220614-tar-bz2/ca-certificates-20220614/certdata.txt

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1.935 ncurses 6.2_p20200523-r0

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  jar/android/annotation/SuppressLint.java
* /opt/cola/permits/1135864606_1613618178.74/0/annotations-4-1-1-4-sources-1-
  jar/android/annotation/TargetApi.java

1.939 python-pip 20.1.1
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==========================

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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cacert.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: cacert.crt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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History
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1.940 cas-client-core 3.1.10

1.941 python-certifi 2020.12.05

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/////  

update-ca-trust(8)  
==================================  
:doctype: manpage  
:man source: update-ca-trust

NAME

update-ca-trust - manage consolidated and dynamic configuration of CA certificates and associated trust

SYNOPSIS

--------

*update-ca-trust* ['COMMAND']

DESCRIPTION

--------  

update-ca-trust(8) is used to manage a consolidated and dynamic configuration
feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the consolidated configuration files found in the /etc/pki/ca-trust/extracted directory or that load the PKCS#11 module p11-kit-trust.so

Parts of the new feature are also provided in a way to make it useful for legacy applications.

Many legacy applications expect CA certificates and trust configuration in a fixed location, contained in files with particular path and name, or by referring to a classic PKCS#11 trust module provided by the NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or access the classic module, to make use of the new consolidated and dynamic configuration feature, the classic filenames have been changed to symbolic links. The symbolic links refer to dynamically created and consolidated output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters), or using the 'update-ca-trust extract' command. In order to produce the output, a flexible set of source configuration is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically reads the same source configuration.

[[sourceconf]]

SOURCE CONFIGURATION
-----------------------
The dynamic configuration feature uses several source directories that will be scanned for any number of source files. *It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *high priority*.
You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:

* If you are manually adding a configuration file to a system, you probably want it to override any other default configuration, and you most likely should add it to the respective subdirectory in the /etc hierarchy.
* If you are creating a package that provides additional root CA certificates, that is intended for distribution to several computer systems, but you still want to allow the administrator to override your list, then your package should add your files to the respective subdirectory in the /usr hierarchy.
* If you are creating a package that is supposed to override the default system trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective subdirectory in the /etc hierarchy.

*QUICK HELP 1*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:
* add it as a new file to directory /etc/pki/ca-trust/source/anchors/
* run `update-ca-trust extract`

*QUICK HELP 2*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:
* add it as a new file to directory /etc/pki/ca-trust/source/
* run `update-ca-trust extract`

In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.

* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust-source/anchors/
* simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust-source/blacklist/
* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:

* certificate files that include trust flags, in the BEGIN/END TRUSTED CERTIFICATE file format (any file name), which have been created using the openssl x509 tool and the -addreject -addtrust options.
Bundle files with multiple certificates are supported.
* files in the p11-kit file format using the .p11-kit file name extension, which can (e.g.) be used to distrust certificates based on serial number and issuer name, without having the full certificate available.
(This is currently an undocumented format, to be extended later.
For examples of the supported formats, see the files shipped with the ca-certificates package.)
* certificate files without trust flags in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files will be added with neutral trust, neither trusted nor distrusted.
They will simply be known to the system, which might be helpful to assist cryptographic software in constructing chains of certificates. (If you want a CA certificate in these file formats to be trusted, you should remove it from this directory and move it to the /anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format. Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format. Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs may load one of the files found in the /etc/pki/ca-trust/extracted directory. After modifying any file in the /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ directories or in any of their subdirectories, or after adding a file, it is necessary to run the 'update-ca-trust extract' command, in order to update the consolidated files in /etc/pki/ca-trust/extracted/.

Applications that load the classic PKCS#11 module using filename libnssckbi.so (which has been converted into a symbolic link pointing to the new module) and any application capable of loading PKCS#11 modules and loading p11-kit-trust.so, will benefit from the dynamically merged set of certificates and trust information stored in the /usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]

EXTRACTED CONFIGURATION
-----------------------

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>> by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so, then you can use these files in your application to load a list of global root CA certificates.

Please never manually edit the files stored in this directory, because your changes will be lost and the files automatically overwritten,
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates, please rather install them in the respective subdirectory below the /
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains
a CA certificate bundle in the java keystore file format.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains
CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format,
as described in the x509(1) manual page.
File ca-bundle.trust.crt contains the full set of all trusted
or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains
CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format,
as described in the x509(1) manual page.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File tls-ca-bundle.pem contains CA certificates
trusted for TLS server authentication.
File email-ca-bundle.pem contains CA certificates
trusted for E-Mail protection.
File objsign-ca-bundle.pem contains CA certificates
trusted for code signing.

COMMANDS
--------

(absent/empty command)::

Same as the *extract* command described below. (However, the command may
print fewer warnings, as this command is being run during rpm package
installation, where non-fatal status output is undesired.)

*extract*::

Instruct update-ca-trust to scan the <<sourceconf,SOURCE CONFIGURATION>> and produce
updated versions of the consolidated configuration files stored below
the /etc/pki/ca-trust/extracted directory hierarchy.

FILES
-----

/etc/pki/tls/certs/ca-bundle.crt::

Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple
BEGIN/END CERTIFICATE file format, without distrust information. This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/tls/certs/ca-bundle.trust.crt::
Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file format, which includes trust (and/or distrust) flags specific to certificate usage. This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/java/cacerts::
Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information. This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/usr/share/pki/ca-trust-source::
Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::
Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::
Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten. See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR
------
Written by Kai Engert and Stef Walter.

Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3IwXukb/update-ca-trust.8.txt
No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or modify
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NAME
---
ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS
-------
*ca-legacy* ['COMMAND']

DESCRIPTION
------------
ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have
been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved. Future versions of the ca-certificates package might reduce the set of legacy CA certificates that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS
--------
*check*::
The current configuration will be shown.

*default*::
Configure the system to use the default configuration, as recommended by the package maintainers.

*disable*::
Configure the system to explicitly disable legacy CA certificates. Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

*install*::
The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

FILES
-----
/etc/pki/ca-trust/ca-legacy.conf::
A configuration file that will be used and modified by the ca-legacy command. The contents of the configuration file will be read on package upgrades.

AUTHOR
-------
Written by Kai Engert.

Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3IwXukb/ca-legacy.8.txt
No license file was found, but licenses were detected in source scan.

License: Public Domain
Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.e17_8.src.rpm-cosi-expand-archive-L3IwXukb/ca-certificates.spec

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

#
# This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
#
#
# certdata.txt
#
# This file contains the object definitions for the certs and other information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS   CK_OBJECT_CLASS   CKO_CERTIFICATE
# CKA_TOKEN   CK_BBOOL         CK_TRUE
# CKA_PRIVATE CK_BBOOL         CK_FALSE
# CKA_MODIFIABLE CK_BBOOL       CK_FALSE
# CKA_LABEL   UTF8             (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT  DER+base64      (varies)
# CKA_ID       byte array       (varies)
# CKA_ISSUER   DER+base64       (varies)
# CKA_SERIAL_NUMBER  DER+base64  (varies)
# CKA_VALUE    DER+base64       (varies)
# CKA_NSS_EMAIL ASCII7          (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64  (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64  (varies)
# CKA_CERT_HASH binary+base64   (varies)

# Trust
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS   CK_OBJECT_CLASS   CKO_TRUST
# CKA_TOKEN   CK_BBOOL         CK_TRUE
# CKA_PRIVATE CK_BBOOL         CK_FALSE
# CKA_MODIFIABLE CK_BBOOL       CK_FALSE
# CKA_LABEL   UTF8             (varies)
# CKA_ISSUER   DER+base64       (varies)
# CKA_SERIAL_NUMBER  DER+base64  (varies)
# CKA_CERT_HASH binary+base64   (varies)
# CKA_EXPIRES       CK_DATE        (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE   CK_TRUST      (varies)
# CKA_TRUST_NON_REPUDIATION    CK_TRUST      (varies)
# CKA_TRUST_KEY_ENCIPHERMENT   CK_TRUST      (varies)
# CKA_TRUST_DATA_ENCIPHERMENT  CK_TRUST      (varies)
# CKA_TRUST_KEY_AGREEMENT      CK_TRUST      (varies)
# CKA_TRUST_KEY_CERT_SIGN      CK_TRUST      (varies)
# CKA_TRUST_CRL_SIGN          CK_TRUST      (varies)
# CKA_TRUST_SERVER_AUTH       CK_TRUST      (varies)
# CKA_TRUST_CLIENT_AUTH       CK_TRUST      (varies)
# CKA_TRUST_CODE_SIGNING      CK_TRUST      (varies)
# CKA_TRUST_EMAIL_PROTECTION  CK_TRUST      (varies)
# CKA_TRUST_IPSEC_END_SYSTEM  CK_TRUST      (varies)
# CKA_TRUST_IPSEC_TUNNEL      CK_TRUST      (varies)
# CKA_TRUST_IPSEC_USER        CK_TRUST      (varies)
# CKA_TRUST_TIME_STAMPING     CK_TRUST      (varies)
# CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL      (varies)
# (other trust attributes can be defined)
#
#
The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After: Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services 4.0.0 9922
\244\035\202\234

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\134\1267\135\067\1237\261\207\051\212

END

CKA_ISSUER MULTILINE_OCTAL
\060\127\061\113\060\011\110\060\003\125\004\006\023\002\102\105\061
\031\060\027\060\003\125\004\012\023\020\017\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\101\020\060\016\060\003
\125\004\013\023\007\122\157\157\164\040\013\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R2"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number:04:00:00:00:00:01:0f:86:e6:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before : Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021
CKA_CLASS CK_OBJECT_CLASS CKC_X_509

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign Root CA - R2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\013\101\040
\055\040\122\062\061\023\060\021\106\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\122\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156

END

CKA_ID UTF8 "0"

CKA_ISSUERMULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\013\101\040


```

\157\164\055\162\062\056\143\162\154\060\037\006\003\125\035\043
\004\030\060\026\000\024\233\342\007\127\147\034\036\300\152\006
\336\131\264\232\055\337\334\031\206\056\060\015\006\011\052\206
\110\206\367\015\001\000\055\000\003\020\001\000\023\120\201
\123\207\034\150\227\020\062\221\354\340\112\270\104\013\253\201\254
\047\17\332\63\070\033\4\103\170\263\014\232\374\352\054\074\156
\141\013\33\151\130\315\65\237\005\030\232\030\32\207\201\016
\105\266\25\10\022\32\271\251\063\113\030\232\032\370\207\210\016
\333\335\161\064\032\301\124\332\106\077\340\323\052\253\155\124
\042\365\072\142\315\040\157\272\051\121\327\335\221\356\323\134
\242\076\244\133\101\365\337\345\144\030\055\351\25\071\253\322
\242\323\67\21\332\20\300\020\03\104\05\300\055\214\350\370\055
\244\164\126\11\035\005\265\117\025\336\156\104\170\071\207\250
\176\273\363\171\030\221\273\364\157\235\301\360\214\065\214\135
\001\373\303\155\271\135\71\04\155\171\106\061\176\012\376\251\202
\301\377\357\253\156\040\304\120\311\137\235\115\233\027\214\014
\345\001\311\240\101\152\163\123\372\245\202\264\156\045\017\373
\114\030\364\375\122\331\216\151\261\350\021\017\336\210\303\073
\035\111\367\252\353\262\317\040\170\302\214\022\333\045\100\214
\152\374\176\102\070\100\144\022\367\236\201\341\223\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA - R2"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number:04:00:00:00:00:01:0f:86:26:e6:0d
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

```
# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU=\"(c) 1999 VeriSign, Inc. - For authorized use only\",OU=VeriSign Trust Network,O=\"VeriSign, Inc.\",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU=\"(c) 1999 VeriSign, Inc. - For authorized use only\",OU=VeriSign Trust Network,O=\"VeriSign, Inc.\",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"

CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\050\060\122\122\062\062\061\023\060\021\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\157\157\060\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\010\017\206\046\346\015
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:0f:00:cf:af:38:48:ce:b1:a4

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321 \351\161\106\245
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\261\107\274\030\127\321\030\240\170\055\354\161\135\052\225\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\003\125\004\006\023\002\125\123 \061\127\060\025\006\003\125\004\012\023\016\126\145\162\151\123 \151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125 \004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165 \163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003 \125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145 \162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106 \157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163 \145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023 \074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040 \061\104\120\165\142\154\151\143\040\120\162\151\155\141\162\171 \104\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101 \165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110 \316\261\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999

Open Source Used In Crosswork Common EMS Services 4.0.0 9929
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\027\060\025\060\003\125\004\006\023\002\125\123
\061\007\060\025\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\146\040\116\145\164\167\157\162\153\061\072\060\007\006\003
\125\004\013\023\061\050\143\012\166\145\162\151\123\151\147\156\054\040\111\156\143\056\040\005\000\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\040\032
\074\126\145\162\151\123\151\147\156\040\010\154\141\163\163\040
\062\040\120\161\165\142\154\151\143\040\120\162\151\155\141\162\171
\164\161\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\027\060\025\060\003\125\004\004\023\002\125\123
\061\007\060\025\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\146\040\116\145\164\167\157\162\153\061\072\060\007\006\003
\125\004\013\023\061\050\143\012\166\145\162\151\123\151\147\156\054\040\111\156\143\056\040\005\000\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\040\032
\074\126\145\162\151\123\151\147\156\040\010\154\141\163\163\040
\062\040\120\161\165\142\154\151\143\040\120\162\151\155\141\162\171
\164\161\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\134\7260\246\331\120
\133\172
END
CKA_VALUE MULTILINE_OCTAL
\060\027\060\025\060\003\125\004\004\023\002\125\123
\061\007\060\025\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\146\040\116\145\164\167\157\162\153\061\072\060\007\006\003
\125\004\013\023\061\050\143\012\166\145\162\151\123\151\147\156\054\040\111\156\143\056\040\005\000\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\040\032
\074\126\145\162\151\123\151\147\156\040\010\154\141\163\163\040
\062\040\120\161\165\142\154\151\143\040\120\162\151\155\141\162\171
\164\161\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false
cka_class ck_object_class cko_nss_trust
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
ckamodifiable ck_bbool ck_false
cka_label utf8 "Verisign Class 2 Public Primary Certification Authority - G3"
cka_cert_sha1_hash multiline_octal
\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
cka_cert_md5_hash multiline_octal
\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366
cka_issuer_multiline_octal
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\212\51\23
\061\127\060\025\006\003\125\004\012\23\16\126\143\162\151\123
\151\147\156\050\40\011\156\143\056\061\037\060\035\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
Open Source Used In Crosswork Common EMS Services 4.0.0

# Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\131\172
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
Open Source Used In Crosswork Common EMS Services 4.0.0 9935

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
Serial Number: 4c:00:36:1b:e5:08:2a:9a:ac:ce:74:0a:05:3e:fb:34
Subject: CN=Egypt Trust Class 3 Managed PKI Enterprise Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
Not Valid Before: Sun May 18 00:00:00 2008
Not Valid After: Thu May 17 23:59:59 2018

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"

Serial Number: 3e:0c:9e:87:69:aa:95:5e:d4:5b:51
Subject: CN=Egypt Trust Class 3 Managed PKI Operational Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
Not Valid Before: Sun May 18 00:00:00 2008
Not Valid After: Thu May 17 23:59:59 2018

Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc. ",C=US
Subject: CN=Egypt Trust Class 3 Managed PKI Operational Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
Not Valid Before: Sun May 18 00:00:00 2008
Not Valid After: Thu May 17 23:59:59 2018

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"
CKA_ISSUER MULTILINE_OCTAL
\060\020\020\013\013\013\013\006\003\125\004\006\023\002\125\123
\061\027\006\025\006\003\125\004\012\023\016\126\145\151\151\123
\151\147\156\054\040\111\115\143\035\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\012\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\010
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\106\105\060\103\006\003\125\004\030\023
\074\126\145\162\151\123\151\147\157\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\014\236\027\151\252\225\134\352\043\330\105\236\324
\133\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 3/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.,C=US
# Subject: CN=Egypt Trust Class 3 Managed PKI SCO Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
# Not Valid Before: Sun May 18 00:00:00 2008
# Not Valid After : Thu May 17 23:59:59 2018
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 3/3)"
CKA_ISSUER MULTILINE_OCTAL
\060\020\020\013\013\013\013\006\003\125\004\006\023\002\125\123
\061\027\006\025\006\003\125\004\012\023\016\126\145\151\151\123
\151\147\156\054\040\111\115\143\035\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\012\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\010
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\106\105\060\103\006\003\125\004\030\023
\074\126\145\162\151\123\151\147\157\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
\163\164\040\116\145\164\167\157\162\153\061\107\106\006\010\125\004\010\050\143\051\104\061\107\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\000\032\23
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\022\275\046\242\256\063\300\177\044\173\152\130\151\362
\012\166
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust.net Premium 2048 Secure Server CA"
#
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\126\061\022\060\000\063\125\004\012\023\013\105\156
\164\162\165\164\164\156\150\060\110\060\076\006\003\125
\004\013\024\067\167\167\167\167\167\056\145\156\156\164\162\165\163\164\056
\156\145\164\057\10\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\145\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\106\105\045\060\043\006
\003\125\004\013\023\03\04\050\143\051\040\061\071\071\071\040\015
\156\164\162\165\163\164\056\156\145\164\040\144\141\151\155\151\164
\145\144\061\063\060\060\100\060\03\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
Open Source Used In Crosswork Common EMS Services 4.0.0 9942
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Certificate "Entrust Root Certification Authority"

# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\111\105\061
\022\060\020\000\003\125\004\012\023\011\102\154\164\151\155
\151\162\145\061\102\060\021\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\013\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "Entrust Root Certification Authority"

# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

# Serial Number: 1164660820 (0x456b5054)

# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

# Not Valid Before: Mon Nov 27 20:23:42 2006

# Not Valid After : Fri Nov 27 20:53:42 2026

# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:00:13:3D:82:1F:3F:E4


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"

END

CKA_ISSUER MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324\147\111\122\371
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\102\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\106\067\006\003\125\004
\013\023\060\167\167\167\156\164\162\165\163\164\056\156
\145\164\057\103\201\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\037\060\035\006\003\125\004\013\023\026\050\143
Certificate "GeoTrust Global CA"

# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022

# Certificate "GeoTrust Global CA"

# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022

# Certificate "GeoTrust Global CA"

# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022

# Certificate "GeoTrust Global CA"

# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After: Sat May 21 04:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\050\364\244\377\345\271\057\243\305\003\321\243\111\247\371
\226\052\202\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\367\165\253\051\373\121\116\267\167\136\377\005\074\231\216\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\012\061\103\060\01\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GeoTrust Universal CA"
#
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\001\110\006\003\125\000\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\105\061\013\060\001\110\006\003\125\000\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\001\001
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\005\150\060\020\023\003\002\001\100\002\002\001\001
\060\015\006\011\052\206\110\026\367\015\001\100\005\000\000\060
\105\061\101\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\164\040\111\115\143\056\061\036\060\034\006\003\125\004\003\023
\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162
\163\141\154\040\103\101\100\060\036\027\015\060\064\060\063\060\064
\060\065\060\060\060\060\060\132\027\015\062\071\060\063\060\064\060
\060\065\060\060\060\060\132\060\105\061\013\060\011\100\003\125\004
\000\023\002\125\123\061\102\060\024\006\003\125\004\012\023\015
\107\145\157\124\162\165\163\164\040\111\115\143\056\061\036\060
\034\006\003\125\004\003\023\025\107\145\157\124\162\165\163\164
\040\125\156\151\166\145\162\163\141\154\040\103\101\100\060\202\002
\042\020\060\105\006\011\052\206\110\026\367\015\001\100\001\100\005\000

# Trust for Certificate "GeoTrust Universal CA"
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 00 00 2029

cka_class ck_object_class CKO_NSS_TRUST
cka_token CK_BOOL CK_TRUE
cka_private CK_BOOL CK_FALSE
cka_modifiable CK_BOOL CK_FALSE
cka_label UTF8 "GeoTrust Universal CA"
cka_cert_sha1_hash multiline_octal
cka_cert_md5_hash multiline_octal


```
\222\145\130\213\242\032\061\162\163\150\134\264\245\172\007\110
END

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GeoTrust Universal CA 2"
#
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\107\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
```
# Trust for Certificate "GeoTrust Universal CA 2"
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\205\105\065\014\246\003\151\363\074\056\257
\107\117\040\171
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\302\362\333\217\344\224\037
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\103\060\011\006\003\125\004\006\023\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\040\060\036\006\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\001\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\001\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\014\060\020\001\364\240\003\002\001\002\002\003\001
\000\040\060\015\006\061\105\052\206\061\020\063\367\015\001\001\000\050\005
\000\060\076\061\013\060\001\006\003\125\004\006\023\002\120\114
\061\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\036\027\015\060\062\060\060\061\061\061\060\064\060\063
\071\112\027\015\062\067\060\066\061\061\060\064\060\063
\071\320\060\076\061\013\060\001\006\003\125\004\006\023\002\120\114
\061\133\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\020\001\042\060\015\006\061\105\052\206\061\110\020\063\367\015\001
\001\010\005\000\009\032\020\017\000\060\020\002\001\120\022\020\001
\001\000\316\261\130\056\323\117\174\315\045\316\030\076\117\304
\214\157\200\152\163\310\133\121\137\023\332\322\334\273\000\134\261
\240\374\165\003\356\201\360\210\035\043\122\351\134\025\063\215
\254\055\011\305\166\371\053\071\120\021\134\227\113\220\245\250
\170\370\163\103\173\244\141\162\060\330\130\314\341\154\146\176\234
\363\011\136\251\143\204\325\205\357\363\261\056\060\150\263\304
\074\330\254\156\215\231\132\220\116\064\334\306\232\217\021\210
\120\267\155\226\102\011\136\327\225\203\015\101\113\260\152\153
\370\374\017\176\142\237\147\304\355\046\137\020\040\017\100\011
\360\244\127\050\316\217\270\355\105\366\156\356\045\135\252\156
\071\276\344\223\057\331\107\240\162\353\372\246\133\257\312\123
\077\342\016\036\226\126\021\156\367\351\146\251\046\330\177\225
\123\355\012\205\210\272\117\051\124\510\202\143\136\266\374\205\040
\000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042
\261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110
\063\024\124\266\353\331\157\316\135\210\326\253\033\332\226\073
\035\131\002\003\001\000\001\243\023\060\021\060\017\006\003\125
\035\023\001\000\137\70\004\005\060\003\000\100\1\377\060\150\006\011
\052\220\110\206\367\015\000\100\1\005\005\000\003\202\000\100\1000
\270\215\316\135\373\47\024\272\317\356\260\104\222\154\264\071\076
\242\204\156\255\270\041\167\322\324\167\202\073\346\040\101\201
\356\342\370\021\267\143\321\027\067\276\031\166\044\034\004\032
\114\353\075\252\147\157\055\324\135\376\145\061\160\305\033\246
\002\012\272\140\173\155\130\032\232\111\376\143\062\013\153\343
\072\300\254\253\073\260\350\233\011\121\124\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\216\214\274\262\162\230
\317\315\314\077\271\131\044\102\024\326\127\374\346\046\103\251
\035\345\200\220\316\003\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\233\073\024\043\032\143\234\077\321\120\074\171
\345\141\121\343\001\255\205\135\032\073\126\123\163\020\244\323
\362\274\156\144\365\132\126\220\250\307\106\114\164\101\170\065\161
\073\367\310\107\364\151\157\052\362\021\136\123\036\234\174\122
\256\375\002\332\022\250\131\147\030\333\327\160\335\233\261\151
\355\200\316\211\100\110\152\021\160\065\312\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\260\054\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
\121\261\201\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\110\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
Open Source Used In Crosswork Common EMS Services 4.0.0  9960
# Certificate "Comodo AAA Services root"

# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
```

```
END
```
END

# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\57\027\326\217\331\57\027\321\57\027\321\57\027\321\57\027
\144\330\343\57\027\321\57\027\321\57\027\321\57\027
\154\261\243\017\236\277\353\150\347\126\362\256\362
\343\305\070\071\201\265\153\205\327\276\055\355\077\032\67
\262\143\334\236\51\42\042\324\152\000\101\203\071\203\237
\225\351\066\226\230\156

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\57\027\326\217\331\57\027\321\57\027\321\57\027
\144\330\343\57\027\321\57\027\321\57\027\321\57\027
\154\261\243\017\236\277\353\150\347\126\362\256\362
\343\305\070\071\201\265\153\205\327\276\055\355\077\032\67
\262\143\334\236\51\42\042\324\152\000\101\203\071\203\237
\225\351\066\226\230\156

END
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
END
CKA_ISSUER MULTILINE_OCTAL
\0601\173\061\113\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\0016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\101\101\101\040\031\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA"
#
# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Serial Number: 985026699 (0x3ab6508b)
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33 2001
# Not Valid After : Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:DE:36:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\0601\177\061\113\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\010\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\010\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
# Trust for Certificate "QuoVadis Root CA"

# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM

# Serial Number: 985026699 (0x3ab6508b)

# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM

# Not Valid Before: Mon Mar 19 18:33:33 2001

# Not Valid After : Wed Mar 17 18:33:33 2021

# Fingerprint (MD5): 27:DE:36:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL \336\077\100\275\120\223\323\233\154\140\366\332\274\007\142\000\000\211\166\311

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL \047\336\066\376\162\267\000\003\000\235\364\036\036\154\004\044\044

END

CKA_ISSUER MULTILINE_OCTAL \060\177\061\013\060\001\100\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\045\060\043\060\003\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
# Certificate "QuoVadis Root CA 2"

# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\061\056\060\054\006\003\012\055\004\003\023\045\012\016\015\0126
\014\014\015\011\063\040\012\015\017\015\016\040\010\013\014\016\012\016\014\016
\015\014\014\016\015\015\016\040\010\016\015\016\040\015\017\016\012\016
\0171

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\266\120\213

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After: Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\317\022\100\066\113\104\262\026\040\210\200\110\071
\031\223\174\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\001\100\060\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\151\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 3"
#
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After: Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\13\060\011\006\003\125\004\006\023\021\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\010\04\0063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\13\060\011\006\003\125\004\006\023\021\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\010\04\0063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\02\00\2\005\3\06
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\235\060\202\004\205\240\003\002\001\002\002\002\005
\306\060\015\006\011\052\206\11\206\367\015\001\001\005\000\000
\060\015\061\013\060\011\006\003\125\004\006\023\021\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\010\04\0063\060\036\027\015\060\060\060\061\061\062
\064\040\071\061\060\062\063\132\207\015\063\060\061\061\062\064
\061\071\060\066\064\064\132\060\105\061\013\060\011\006\003\125
\004\006\023\021\02\115\061\031\060\027\006\003\125\004\012\023
\201\012\165\157\126\141\144\151\163\040\122\157
\141\144\151\163\040\122\157\157\164\040\103\010\04\0063\060\202
\002\040\026\015\006\011\052\206\11\206\367\015\001\001\001\005
\000\003\122\020\017\000\060\202\012\012\020\020\020\010\00\0314
\127\012\020\264\124\234\346\230\323\323\323\115\356\376\355\307\237\103
\071\112\145\263\335\026\201\064\333\051\153\221\164\317\222\270
\004\100\255\002\113\061\125\274\215\221\150\330\040\160\320\001
\324\032\173\116\027\135\342\212\267\077\231\032\215\353\141\253
\302\045\246\037\267\267\275\277\173\374\375\160\217\013\240\147
\276\001\124\131\171\161\346\017\051\166\377\261\126\171\105\053
\037\236\172\124\350\243\051\065\150\244\001\117\017\244\056\067
\357\033\273\343\217\020\025\162\253\130\127\347\124\063\310\311
\363\133\332\054\321\135\216\156\074\243\076\332\373\202\345\335
\362\134\262\005\063\157\212\066\163\320\023\116\377\277\112\014
# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

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<table>
<thead>
<tr>
<th>Open Source Used In Crosswork Common EMS Services 4.0.0</th>
<th>9974</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE</td>
<td></td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
</tbody>
</table>
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\106\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\141\151\155\151\164\145\144\061\033\060\033\100\063
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Security Communication Root CA"
#
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\106\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\104\060\045\006\003\125
\004\03\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103

Open Source Used In Crosswork Common EMS Services 4.0.0 9975
# Trust for Certificate "Security Communication Root CA"

Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP

Serial Number: 0 (0x0)

Valid Before: Tue Sep 30 04:20:49 2003

Valid After: Sat Sep 30 04:20:49 2023


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Security Communication Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
# Certificate "Sonera Class 2 Root CA"

# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After: Tue Apr 06 07:29:40 2021

cka_object_class CKO_CERTIFICATE
cka_label UTF8 "Sonera Class 2 Root CA"
# Trust for Certificate "Sonera Class 2 Root CA"
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After : Tue Apr 06 07:29:40 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\367\155\346\007\174\220\305\261\076\223\032\267\101\020\264
\362\344\232\047
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\243\354\165\017\056\210\035\174\116\031\120\101
\141\040\103\154\141\163\062\040\103\101
END

# Certificate "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Trust for Certificate "Camerfirma Chambers of Commerce Root"
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\135\024\133\125\051\030\223\204\074\300\333\162\056\061
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\130\060\011\006\003\125\004\006\023\002\105\125\061
END
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\036\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\175\061\013\060\011\100\060\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\036\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\004\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\100\060\003\125\004\006\023\002\105\125\061

Open Source Used In Crosswork Common EMS Services 4.0.0 9984
\$171110120245357322310032233722601772611202034167$
\$152017137334013225217357103176346105011045002001$
\$0032432020012006020020114506022006003125035023$
\$00010001377004010906006000100113770020001014060077006$
\$00312503503700040700606606060642406224060260656$
\$150164164160072057057143162154056143150141155142$
\$145162163151147156056157162147057143150141155142$
\$145162163151147156162157164056143162154060035$
\$0060031250350160040260040241032340662372620236060$
\$115306316113725502025334500312453722515240602016006$
\$00312503501700101137700400400302001001006002011006$
\$011140602610900120637010201001001004004003020000007$
\$0600520060003125035021004430600412010371143150141$
\$155142145162163151147156162157164100143150141$
\$155142145162163151147156056157162147060052006003$
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\$1631511471561621571571640010314150141155142145162$
\$163151147156056157162147060133006003125035040004$
\$12406001220601200601305300601004001201207056012$
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\$057143150141155142145162163151147156162157157164$
\$05615016415515406001500601105202611010206367015001$
\$0010050050000320020100100007407316022213710044124$
\$04722134135535535671501771141135345101145117062361$
\$0300005224152034336033716033307617306202064265014$
\$05424121217424536421737732433302550273250550043321$
\$077113080034320201132102763003431062230443762220275$
\$046224206005535022700461270652116422626030366025342$
\$054240311260020226227021702433523062121416301206$
\$105125213276222762342440043071111074236365051172$
\$211327376257377150365245027220275254231314245206$
\$1270111471063331326026302106361344251120365217321$
\$2220253323137076306000111072156130263231231047015$
\$04531062370040211315715062063112224124114335334$
\$171304060237353521627012526327221034305152044075$
\$262323000530121306007357314024162164075156162316$
\$103005021411224016734501105310510407254267147177$
\$001121200513223276241301377370347016147244107111$
\$166135165220032365046217360$
END

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\001\011\006\003\125\004\006\023\002\125\012
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\011\006\003\125\004\006\023\002\125\012
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_VALUE MULTILINE_OCTAL
\060\201\202\061\013\060\001\011\006\003\125\004\006\023\002\125\012
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\056\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\030\000\156\235\017\330\017\222\012\321

CKA_ISSUER MULTILINE_OCTAL
\060\020\02\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\145\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\033\125\004\003\023
\040\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Go Daddy Class 2 CA"

# Issuer: OU=Go Daddy Class 2 Certification Authority, O="The Go Daddy Group, Inc.", C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority, O="The Go Daddy Group, Inc.", C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\014\141\144\144\171\040\107\162\157\165\160\005\040\101\115\016\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\014\141\144\144\171\040\107\162\157\165\160\005\040\101\115\016\164\150
\143\056\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060

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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160\002
\217\040\356\344

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\060\045\253\332\375\062\027\014\273\045\027\052\204\147

END

CKA_ISSUER MULTILINE_OCTAL
\060\143\036\010\130\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\230\030\124\150\145\040\017\157
\040\041\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\006\016\160\057\006\003\125\004\013\023\050\107\157\040
104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
162\164\151\146\151\143\141\164\151\157\156\040\010\165\164\150
157\162\151\164\171
# Certificate "Starfield Class 2 CA"

# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc." , C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc." , C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After: Thu Jun 29 17:39:16 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_Certificate_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\144\140\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\144\140\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\006\011\052\206\110\026\367\015\001\001\005\005\000\000\003\202
\001\010\000\005\235\077\210\235\321\111\032\125\241\125\151\1363
\036\31\332\233\000\012\070\032\117\127\251\124\171\011\052\333\367
\057\262\036\314\307\136\152\330\203\207\241\227\357\111\065\076
\167\006\101\130\142\277\216\130\270\012\147\077\354\263\335\041
\146\037\112\143\247\162\214\075\114\100\033\300\201\257\167\236\203
\172\273\242\037\365\064\027\216\331\021\100\364\374\054\052\115
\025\177\247\142\135\056\045\323\000\013\040\032\035\150\371\027
\270\364\275\131\335\050\131\335\115\026\213\027\203\310\262\145
\307\055\172\245\252\274\123\206\155\335\127\244\312\370\040\101
\013\150\360\364\373\164\247\126\135\172\171\136\371\035\205\343
\055\225\276\365\161\122\010\331\142\253\137\322\000\012\207\051\351
\125\042\130\000\043\352\343\022\103\051\133\107\010\335\214\101
\152\145\006\250\345\041\252\101\264\225\041\225\271\175\321\064
\253\023\326\255\274\334\342\075\071\315\275\076\165\160\241\030
\131\003\311\042\264\217\234\325\136\052\327\245\266\324\012\155
\370\267\100\021\106\232\037\171\016\142\277\017\227\354\340\057
\037\027\224
END

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# Certificate "Taiwan GRCA"
#
# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After : Sun Dec 05 13:23:33 2032
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Taiwan GRCA"
# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After : Sun Dec 05 13:23:33 2032
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\213\021\277\336\253\276\124\040\161\346\101\336\153\276
\210\053\100\271
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\205\104\123\062\105\037\040\360\363\225\341\045\304\103\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\103\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\060\060\060\003\125\004\012\140\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\235\131\132\327\057\302\006\104\245\200\010\151\343
\136\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,O=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8fe5:60:fc:1b:fo:30:39
# Subject: CN=DigiCert Assured ID Root CA,O=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
```
# Trust for Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250\231\262\115\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\341\130\161\233\067\250\223\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\015\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\042\006\003\125\004\003\023\033\014\151\147\151\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360\060\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root CA"
#
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU.www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU.www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057
\261\124\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\124\165\152\311\131\221
\307\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\356\\363\\111\\155\\161\\221\\176\\143\\266\\253\\246\\137\\303\\244\\204\\370\\117\\142\\121\\276\\370\\305\\354\\333\\070\\222\\233\\343\\063\\345\\010\\221\\014\\304\\050\\101\\253\\373\\313\\132\\211\\025\\176\\161\\1350065277\115\\162\\011\\075\\276\\072\\070\\120\\133\\167\\061\\0133\\215\\263\\307\\044\\105\\232\\247\\254\\155\\0000241\\312\\004\\267\\272\\202\\333\\121\\012\\230\\011\\010\\042\\116\\145\\141\\207\\021\\101\\120\\246\\171\\134\\211\\3360331112127\\32505634613503412330541760230315032006026244150163\\320064004023134241161323132174125333313644341067\\2070601260004345021264051200022361171071210242002\\021\\174\\047146267210267\\1703623120122500700253012144\\302277146135225204301241045036207135032120013040\\022231410127315601312107207011331302003001000001\\2431430601141060160060031250350170011001377004004\\00300200120606001700600031250350230010011377004005\\0600030100101377060035060031250350160040260040024\\261076303151003370277\\1070011324230046032010002357\\143144053303060037006000312503504300403006062602\\02426107630315100337027710700113242300460320100002\\357143144053303060015006011052026110206367015001\\00100500500000032022001001000034032006227334327234\\2370742101460606010112704133304110173070052147252277\\0300621661000201273012123631723310211451210653732\\23637410502652363311140611113270221350010354216263\\1707363333343123171161132634501122400011332125207232\\044144366212146314336234067315250642611151233043\\3102361700420531160103343125107061141031357130305\\20505711606036662400610260433103473421450260063313\\27703203324007537033121362130612131400010211055014\\006134122267290437101212303212051372370222276174066\\14307022751042441177344046053012304227151015351214\\3423200020112727031011600222211253621101513300274052\\0021330171043240040611333364272160046135220140236\\2741102701105726431303610350311007047301322134\\36735204127115002223407423427723637420001342333143\\31535410725204504714724060673630000202175124327251\\3703510560232431167350037112 END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032\141\307\334\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212
END
CKA_ISSUER MULTILINE_OCTAL\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DST Root CA X3"
#
# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After: Thu Sep 30 14:01:15 2021
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DST Root CA X3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
End

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

End
\025\002\072\253\332\156\361\076\056\365\134\010\234\074\326\203
\151\134\042\020\333\031\025\226\051\127\343\334\075\233\237\360\002
\135\002\039\001\000\000\012\243\102\060\100\060\107\060\003\125\035
\023\001\001\000\137\077\040\005\060\003\001\000\137\077\060\106\006\003\125
\035\017\001\000\137\077\040\004\003\002\001\000\060\060\035\006\003\125
\035\016\040\026\000\040\023\304\247\261\124\173\054\161\137\233\334\11
\113\220\165\377\304\025\140\205\121\010\020\060\015\000\011\052\206
\110\206\367\015\000\010\005\005\000\003\322\001\001\000\243\032
\054\233\027\000\013\245\103\365\050\146\067\072\277\203\307\077
\113\303\011\240\225\040\135\343\331\131\104\322\076\015\076\275
\121\113\240\164\037\373\160\020\023\341\164\032\035\176\230\032\335
\313\023\113\263\040\104\344\221\351\131\437\175\245\333\152\345
\137\64\367\375\340\116\335\267\000\072\265\160\111\257\362\345\353
\002\361\321\002\213\031\131\224\072\136\110\304\030\306\130\031
\137\036\002\132\360\014\361\126\155\251\134\131\206\213\156\351
\221\136\5\206\312\372\27\114\60\325\213\113\33\316\342\247\026\163
\107\313\053\141\231\126\067\110\317\343\126\113\365\317\017\014
\162\062\207\306\360\104\247\131\212\155\103\365\046\110\232\122
\147\267\130\253\376\147\166\161\170\333\015\242\126\024\023\071
\044\061\210\025\242\225\000\213\322\060\107\341\135\120\000\274\002\011
\220\000\353\144\143\140\233\026\267\242\103\311\022\346\322\175\221
\213\371\075\062\215\145\264\351\174\261\127\166\352\305\266\050
\071\127\025\145\034\310\366\167\226\152\012\215\167\013\330\221
\013\004\216\007\333\051\266\012\356\235\202\065\065\020
\END
\CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
\CKA_NSS_SERVER_DISTRUST_AFT CK_BBOOL CK_FALSE
\CKA_NSS_EMAIL_DISTRUST_AFT CK_BBOOL CK_FALSE

# Trust for Certificate "DST Root CA X3"
# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After : Thu Sep 30 14:01:15 2021
\CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
\CKA_TOKEN CK_BBOOL CK_TRUE
\CKA_PRIVATE CK_BBOOL CK_FALSE
\CKA_MODIFIABLE CK_BBOOL CK_FALSE
\CKA_LABEL UTF8 "DST Root CA X3"
\CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\311\002\117\124\\330\366\337\224\223\\137\261\\163\046\070\312
\152\327\174\023
\END
\CKA_CERT_MD5_HASH MULTILINE_OCTAL
\101\003\122\334\017\367\120\033\026\360\002\216\272\157\105\305
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\104\044\060\042\006\003\125\004\012\023\033\104\151\147\151\164\141\154\040\123\151\147\156\141\164\165\162\145\040\124\162\165\163\164\040\103\157\056\061\027\060\025\006\003\125\004\003\023\016\104\123\124\040\122\157\157\164\040\103\101\040\130\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\257\260\200\326\243\047\272\211\060\071\206\056\370\100\153
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SwissSign Platinum CA - G2"
#
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number: 4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\077\061\103\066\000\011\006\000\03\125\004\006\023\002\103\110\061\020\006\000\03\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023\032\123\167\151\163\163\123\151\147\156\040\120\154\14\164\151\156\165\155\040\103\101\040\055\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER.MULTILINE_OCTAL
\060\077\061\103\066\000\011\006\000\03\125\004\006\023\002\103\110\061\020\006\000\03\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023\032\123\167\151\163\163\123\151\147\156\040\120\154\14\164\151\156\165\155\040\103\101\040\055\040\107\062
END


\205\206\171\145\322

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number: 4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After: Sat Oct 25 08:36:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\311\230\047\167\050\036\075\016\025\074\204\000\270\205\003\346
END

CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\001\100\060\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\100\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SwissSign Gold CA - G2"
#
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number: 00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\272\060\020\003\242\240\003\002\000\102\002\011\000
\273\100\034\103\365\136\117\260\060\015\006\011\052\206\110\026
\367\151\000\011\001\005\005\005\006\015\006\101\013\060\011\006\003\125
\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023
\014\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036
\027\105\060\066\061\060\062\065\060\070\063\060\063\065\132\027
\105\063\066\061\060\062\065\060\070\063\060\063\065\132\027
\061\103\060\011\006\003\125\004\006\023\002\103\110\061\025\060
\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147
\156\040\101\107\061\037\060\035\006\003\125\004\003\023\026\123
\167\151\163\163\123\151\147\156\040\107\157\154\144\040\103\101
\040\055\040\107\062\060\020\002\042\060\015\006\011\052\206\110
\206\367\015\019\001\011\005\000\003\202\002\017\000\060\020\002
\012\002\020\002\000\100\023\344\343\356\176\213\044\016\022\156\251
\120\055\026\104\073\222\222\134\124\270\135\204\222\102\023\032\052
\274\145\127\020\100\076\127\044\315\120\213\045\052\267\157\374
\357\242\320\300\037\002\044\112\023\226\217\043\023\346\050\0130
\000\243\107\070\006\247\204\043\053\273\275\226\053\177\125\134
# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:55:6f:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "SwissSign Silver CA - G2"

# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036

END

END
# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\037\311\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_ISSUER_MULTILINE_OCTAL
\060\107\061\103\060\011\100\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GeoTrust Primary Certification Authority"
#
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
   \060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
   \026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
   \163\164\040\111\115\164\056\061\061\016\060\057\006\003\125\004\003
   \023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
   \162\171\040\03\145\162\164\151\146\151\143\141\164\151\157\156
   \040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
   \060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
   \026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
   \163\164\040\111\115\164\056\061\061\016\060\057\006\003\125\004\003
   \023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
   \162\171\040\03\145\162\164\151\146\151\143\141\164\151\157\156
   \040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
   \002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372\304\241
END
CKA_VALUE MULTILINE_OCTAL
   \060\202\003\174\060\202\002\144\240\003\002\001\002\002\020\030
   \125\265\152\375\151\266\025\072\143\154\257\332\372\304\241
   \015\006\011\052\206\110\206\367\150\001\000\050\000\000\060\130
   \061\013\060\011\006\003\125\004\006\023\002\125\123\061
   \024\060\003\125\004\012\023\015\107\145\157\124\162\165
   \163\164\040\111\115\164\056\061\061\016\060\057\006\003\125\004\003
   \023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
   \162\171\040\03\145\162\164\151\146\151\143\141\164\151\157\156
   \040\101\165\164\150\157\162\151\164\171
END
\x001\x000\x002\x0076\x0270\x0025\x0173\x377\x324\x174\x175\x1472\x255\x0173\x1441\x173
\x3101\x021\x230\x553\x337\x3662\x0204\x0010\x0401\x13\x2600\x0111\x1311\x1520\x234\x104
\x0212\x2573\x3571\x1603\x375\x2251\x1763\x1614\x1106\x0273\x1720\x2303\x13700\x2275
\x0011\x1463\x123560\x2251\x215157\x241\x0602\x2347\x2541\x2052\x2366\x224072
\x36312621\x0000\x0613\x1733\x303651522260023311355003214337
\x1651533473\x352270125026\x0052062323643401362612\x010300
\x1442051\x134025115\x2103072672723401653511255005075235
\x30721111034027305003100033410602231441361223001131
\x16004060251721\x12101236122501203327274061163001064
\x355357\x10611634015300\x2506561621532272331146340313
\x03411711373303200415003610700234023635140342066227
\x00113371606522233727614730715516711310721272353326
\x2200253224741020640203010713712610470761176326212
\x165305262257222632324233623334423027617517341351201
\x255266157374332701633234006426001530321673473433010
\x230357\x1300372324204267066257302337254322364020006
\x160161065002000010000011243102060100006010017006003
\x12503520321001001\x377004005060003010011377006010006
\x003112503051\x17001001137700400400000300201000600035006
\x0001250350016004026000402040543251201011227025225123360
\x2170661411133112373153313213101632220600150060011
\x05202601102060367\x01500100105050005003032020011001000
\x13216017705433353267064117365206121251046276113270
\x2523611610153341413072403532064036172167017004065
\x35004721715420227722102604410660761121193161053026
\x3250131220353247031747242002105061111731636372003
\x247171235123152331332143372370200323723231341245
\x21712676324215216123006507272623352256255102262220
\x15734037404011150651430631211111326233116312307347
\x1160110000367332307357231142321167266225042136212
\x2402536364270170230312070031231311162236170315113
\x2542570312401630220553743021012722012121332026132
\x0612673721641610200022110231162163132113123301143
\x122063352547311132270100201603732403611021460511252
\x233112355060124042024137331253035301344224360370
\x3650536367352321170106236270221375246015053032024
\x0010762003601021240225500711631553153141132441055215
\x253022350026333613232452401743500170420351132351131

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Primary Certification Authority"
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Certificate "thawte Primary Root CA"

# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\074\021\216\033\367\270\266\122\124\342\342\020\015\326\002
\220\067\360\226
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\002\046\303\001\136\010\060\067\103\251\132\017\175\067\066\277
END

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\101\061\160\057\006\003\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372
\304\241
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "thawte Primary Root CA"
# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\306\326\356\076\212\310\143\204\345\110\302\134\201\366\013\141\176\176\221\053\201\107
\302\047\060\356\247\020\135\067\217\134\071\053\344\004\360\173
\215\126\214\150
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\312\334\013\042\316\365\276\162\254\101\032\021\250\330\022
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\251\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\025\060\023\066\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\066\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\041\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\060\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\165\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\060\103\065\035\006
\003\125\004\030\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333
\053\155
CKA_TRUST_SERVER_AUTH  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  CK_FALSE

# Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"
CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509
CKA_SUBJECT  MULTILINE_OCTAL
\060\121\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\027\060\25\006\003\125\004\012\023\16\126\145\151\123
\151\147\156\054\004\11\156\143\030\037\060\035\006\003\125
\004\013\023\026\145\151\123\151\147\156\040\124\162\165
\163\164\040\11\145\164\167\157\162\153\040\107\006\003
\125\004\013\023\026\10\143\051\040\104\062\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\59\040\106
\157\162\040\14\165\164\151\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\060\03\125\004\003\123
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\163
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\104\010\135\145\162\165\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
CKA_ID  UTF8 "0"
CKA_ISSUER  MULTILINE_OCTAL
\060\020\131\126\101\13\060\001\11\006\003\125\004\006\023\002\125\123
\061\027\060\25\006\003\125\004\012\023\16\126\145\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\145\151\123\151\147\156\040\124\162\165
\163\164\040\11\145\164\167\157\162\153\040\107\006\003
\125\004\013\023\026\10\143\051\040\104\062\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\59\040\106
\157\162\040\14\165\164\151\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\060\03\125\004\003\123
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\163
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\104\010\135\145\162\165\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"

END

CKA_ISSUER MULTILINE_OCTAL
\116\266\325\170\011\123\034\137\130\036\255\126\276\075\233
\147\042\245\345\313\027\344\061\147\076\342\034\035\006\003\125\004\013\023\061\050\143\051\040\062\060\060\066\040\126\145\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\134\147\156\040\124\162\165\163\164\040\116\145\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\060\105\014\030\010\040\062\060\060\066\040\126\145\162\151\123\134\147\156\054\040\111\156\143\056\040\55\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\134\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\013\145\162\164\151\146\151\134\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\332\321\236\046\175\350\273\112\041\130\315\314\153
\073\112

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TrUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SecureTrust CA"
#

# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

# Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061\103\160\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061\103\160\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\274\060\020\002\244\240\003\002\001\002\002\020\000\07 \126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\015\001\100\005\000\000\060\112
\061\103\060\011\100\003\125\004\006\023\002\125\123\061\040\060
\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\031\160\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\040\101\154\151\157\142\141\154\040\103\101\060\036\027\015\060\066
\061\061\060\067\061\071\064\062\062\070\013\202\070\156\062\071\061
\062\063\061\061\071\065\062\060\066\132\060\112\061\103\060\011
\006\060\125\004\006\023\002\125\123\061\040\060\036\006\003\125
\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040
\103\157\162\160\157\162\141\164\151\157\156\061\031\160\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\003\125\004\003\023\020\123\145\143\165\162\145\040\107\154\157
\142\141\154\040\103\101\060\020\001\042\060\015\006\011\052\156
\110\206\367\015\001\001\001\005\000\003\020\001\017\000\006\020
\001\012\020\022\001\001\000\257\065\056\330\254\154\125\151\006
\161\345\023\150\044\263\117\330\014\041\107\370\361\140\070\211
\211\003\351\279\352\136\061\123\011\334\134\365\132\350\367\105
\052\002\353\061\114\132\370\016\313\143\367\017\041\126\071\176\017
\272\062\230\034\313\052\227\257\217\307\334\111\070\226\363\333\032
\374\121\355\150\036\320\156\244\174\044\321\256\102\310\226\120
END

# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304\137\365\072\033
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\012\023\027\123\145\143\163\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\151\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "COMODO Certification Authority"
#
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ee5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\010\061\013\060\006\003\125\004\006\023\002\107\102
\061\033\060\031\060\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\10\160\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\03\206\030\006\003\125\004\012\023\021\103\117\115\117\104\061
\04\010\10\10\14\15\151\155\151\164\145\144\061\047\060\045\006
\00\31\25\004\003\125\036\103\117\115\117\104\10\13\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\010\061\013\060\001\006\003\125\004\006\023\002\107\102
\061\033\060\031\060\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\10\160\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\03\206\030\006\003\125\004\012\023\021\103\117\115\117\104\061
\04\010\10\10\14\15\151\155\151\164\145\144\061\047\060\045\006
\00\31\25\004\003\125\036\103\117\115\117\104\10\13\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\035\060\202\003\005\240\003\002\001\002\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060
\01\500\06\1\052\206\1\10\206\136\015\001\000\005\000\000\006\020\1
\01\500\06\1\030\011\060\006\003\125\004\006\023\002\107\102\061\033
\060\031\006\003\125\004\010\023\022\107\162\145\141\164\151\164\152
\10\40\115\141\156\143\150\145\163\164\145\162\061\020\060\016\060
\00\31\25\004\007\023\007\123\141\154\146\157\162\144\061\032\060
\10\30\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103
\11\01\040\115\115\155\151\164\145\144\061\047\060\045\006\003\125
\004\003\023\036\103\117\115\117\104\117\040\103\145\162\164\151
\14\61\151\143\141\164\151\157\156\040\116\164\150\157\162\151
\16\41\17\060\036\027\015\060\066\061\062\060\061\060\060\060\060
\10\60\060\132\027\015\062\071\061\062\063\061\062\063\065\071\065
\17\11\32\060\201\010\13\060\011\060\003\125\004\006\023\002
\10\7\102\061\033\060\031\060\003\125\004\010\023\022\107\162\145
\14\11\64\145\162\040\115\141\156\143\150\145\163\164\145\162\061
\10\20\060\16\060\003\125\004\007\023\007\123\141\154\146\157\162
\14\44\061\132\060\030\006\003\125\004\012\023\021\103\117\115\117
\10\41\117\040\103\10\140\114\151\155\151\164\145\144\061\047\060
# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\032\136\275\357\173

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\101\13\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\120\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Network Solutions Certificate Authority"

#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

Open Source Used In Crosswork Common EMS Services 4.0.0  10042
END  

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE  
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE  
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE  
# Trust for Certificate "Network Solutions Certificate Authority"  
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US  
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US  
# Not Valid Before: Fri Dec 01 00:00:00 2006  
# Not Valid After : Mon Dec 31 23:59:59 2029  
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "Network Solutions Certificate Authority"  
CKA_ISSUER MULTILINE_OCTAL  
\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140  
\040\345\337\316  
END  
CKA_CERT_MD5_HASH MULTILINE_OCTAL  
\323\363\246\026\300\037\215\035\131\261\105\15\16\021\1056  
END  
CKA_ISSUER MULTILINE_OCTAL  
\060\142\006\101\030\060\011\006\003\125\004\006\023\002\125\123\061  
\041\060\037\006\113\125\004\120\023\030\116\145\164\167\157\162  
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056  
\103\056\060\106\006\056\006\003\125\004\003\023\047\116\145\164  
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103  
\145\162\164\151\114\143\141\164\145\040\011\165\164\150\157  
\162\151\164\171  
END  
CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\020\201\027\313\063\157\302\134\026\346\107\026\027\343\220\061  
\150\340  
END  
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR  
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST  
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST  
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "COMODO ECC Certification Authority"

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\033\060\031\060\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\154\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\17\104\117
\040\103\104\014\115\155\151\164\145\140\061\105\060\051\006
\003\125\004\003\023\042\103\117\115\17\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\010
\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\120\051\061\013\060\001\11\006\000\03\125\004\006\023\002\107\102
\061\033\060\031\060\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\17\104\117
\040\103\104\014\115\155\151\164\145\140\061\105\060\051\006
\003\125\004\003\023\042\103\117\115\17\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\010
\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\211\060\020\02\17\240\003\002\001\002\002\020\037
# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority, O=COMODO CA Limited, L=Salford, ST=Greater Manchester, C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216
\055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\103\060\011\006\000\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\151\141\156\143\150\145\163\164\145\162\061\020\0060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\17\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\010\117\115\17\104\117\040\105\103\103
\040\101\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005, O=WISeKey, C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005, O=WISeKey, C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\006\031\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\060\105\060\046\006\003\125\004\000\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\07\101\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\212\061\013\060\006\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\060\105\060\046\006\003\125\004\000\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\07\101\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END

CKA_VALUE MULTILINE_OCTAL
\060\201\212\061\013\060\006\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\060\105\060\046\006\003\125\004\000\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\07\101\040\103\101
END
Open Source Used In Crosswork Common EMS Services 4.0.0  10049
Open Source Used In Crosswork Common EMS Services 4.0.0 10050

# Trust for Certificate "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WlSeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After: Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260 \104\033\017\251
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\332\146\143\124\025\162\033\041\222\223
CKA_ISSUER MULTILINE_OCTAL
\060\021\212\061\013\060\001\011\000\03\125\004\006\023\002\103\110
\061\102\060\016\060\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\105\143\051\104\162\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\100\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\154\144\061\050\060\046\060\060\03\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\104\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\121\075\162\307\364\153\037\201\103\175\361\322\050\124
\337\232
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Certigna"

# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number: 00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After: Tue Jun 29 15:13:05 2027

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\060\012\160\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\250\060\020\020\020\020\003\002\001\002\002\011\000
\376\334\343\001\017\311\110\377\060\015\006\011\052\206\110\206
\367\015\001\001\005\005\000\060\064\061\013\060\011\006\003\125
\004\006\023\002\106\122\061\022\060\020\006\003\125\004\012\014
\011\104\150\151\155\171\157\164\151\163\061\021\060\017\006\003
\125\004\003\014\010\103\145\162\164\151\147\156

END

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\060\012\160\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141

END

END
# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\102\202\031\126\130\104\150\151\155\171\157
\164\151\163\161\021\150\151\012\014\010\103\145
\162\164\151\147\156\141
END
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\110\117
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Cybertrust Global Root"
# # Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Serial Number:04:00:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Cybertrust Global Root"
# Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Serial Number:04:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\103\345\261\277\370\170\214\254\034\307\312\112\232\306\042
\053\14\064\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\162\344\112\207\164\054\100\167\352\274\343\364\377\360\341
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\054\040\111\156\143\061\037\060\0035
\006\003\125\004\039\023\026\103\171\142\145\162\164\162\165\163
\164\040\107\154\157\142\141\154\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\017\205\252\055\110
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "ePKI Root Certification Authority"
#
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\001\106\003\125\004\006\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\149\023\103\150\165\156\147\150
\167\141\040\124\145\143\157\155\040\103\157\056\040\040
\114\164\144\056\061\052\060\050\060\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151

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\014\113\054\234\303\222\205\064\141\313\017\270\233\112\103\122
\376\064\072\175\270\351\051\334\166\251\131\010\063\370\002\161\200
\306\036\066\110\140\042\101\134\207\202\350\030\016\123\101\211
\104\347\176\130\133\250\270\215\023\351\124\154\030\107\355\263
\032\235\142\256\215\020\352\224\236\335\131\020\303\255\335\342
\115\433\061\132\357\353\036\345\260\376\222\036\026\012\032\234
\331\136\370\047\266\011\276\035\264\154\144\220\177\364\344\304
\133\327\067\256\102\016\335\344\032\157\174\210\124\305\261\156
\341\172\150\056\370\072\227\015\244\074\211\073\124\341\114\134\061
\354\106\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\010\003\125\004\012\140\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\105\206\050\006\003\125\004\013\104\041\145
\120\131\110\040\122\157\157\164\040\103\145\156\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\143\114\040\122\157\157\164\040\103\145\156\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:e8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\176\133\202\100\244\364\126\113\317\342
\075\151\130\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263
END
CKA_ISSUER_MULTILINE_OCTAL
\060\136\061\130\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\010\003\125\004\012\140\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\105\206\050\006\003\125\004\013\104\041\145
\120\131\110\040\122\157\157\164\040\103\145\156\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "certSIGN ROOT CA"
#
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After: Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\03\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
\164\123\111\107\116\040\122\117\117\124\040\03\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\070\060\020\002\040\024\000\033\002\001\002\002\006\040
\006\005\026\160\002\060\015\006\011\052\206\110\206\367\015\001
\001\005\050\005\000\060\073\061\013\060\011\006\003\125\004\060\023
\020\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145
\162\164\123\111\107\116\061\031\060\027\006\003\125\004\013\023
\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\03\103
\101\060\036\027\015\060\066\060\067\060\064\061\067\062\060\060
\064\132\027\015\063\061\060\067\060\064\061\067\062\060\060\064
\132\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117
# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After: Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"

END

# Certificate "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After: Tue Dec 01 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_LABEL UTF8 &quot;GeoTrust Primary Certification Authority - G3&quot;</td>
<td></td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509</td>
<td></td>
</tr>
<tr>
<td>CKA_SUBJECT MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ID UTF8 &quot;0&quot;</td>
<td></td>
</tr>
<tr>
<td>CKA_ISSUER_MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_VALUE MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>
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\055\017\206\233\164\331\105\373\324\100\261\172\252\150\055\206
\262\231\042\341\130\105\373\234\370\363\137\250\202\022\353\031
\021\055
END

CKA_NSS_Mozilla_Ca_policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\003\236\355\270\013\347\240\074\151\123\211\073\040\322\331\062
\072\114\052\0375
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\350\064\066\072\114\052\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\100\157\162\040
\141\165\161\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\141\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\254\156\124\031\262\171\113\101\366\047\251\130\030
\017\037
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "thawte Primary Root CA - G2"

# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

cka_trust_code_signing
cka_trust
ckt_nss_must_verify_trust
cka_trust_step_up_approved
ck_bbool
ck_false

# Certificate "thawte Primary Root CA - G2"

# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

cka_class
ck_object_class
cko_certificate
cka_token
cka_bbool
cka_true
cka_private
ck_bbool
cka_false
cka_modifiable
ck_bbool
cka_false
cka_certificate_type
ck_certificate_type
ckc_x_509
cka_subject
multiline_octal

\060\201\204\061\013\060\001\1\006\003\125\004\006\023\002\125\123
\061\025\060\023\060\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\011\1\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\011\1\156\143\056\040\055\040\010\165\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\010\040\55\040\107\062

cka_id
utf8 "0"

cka_issuer
multiline_octal

\060\201\204\061\013\060\001\1\006\003\125\004\006\023\002\125\123
\061\025\060\023\060\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\011\1\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\011\1\156\143\056\040\055\040\010\165\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\010\040\55\040\107\062

cka_serial_number
multiline_octal

\002\020\020\065\374\046\134\331\120\117\311\1\075\046\075\127\233\256
\327\126

cka_serial_number
multiline_octal

\002\020\020\065\374\046\134\331\120\117\311\1\075\046\075\127\233\256
\327\126

end

cka_serial_number
multiline_octal

\002\020\020\065\374\046\134\331\120\117\311\1\075\046\075\127\233\256
\327\126

end

cka_serial_number
multiline_octal

\002\020\020\065\374\046\134\331\120\117\311\1\075\046\075\127\233\256
\327\126

end

cka_serial_number
multiline_octal

\002\020\020\065\374\046\134\331\120\117\311\1\075\046\075\127\233\256
\327\126

end
CKA_VALUE MULTILINE_OCTAL
\060\020\020\022\210\060\020\020\020\015\240\003\020\001\002\002\020\005
\374\046\134\331\204\117\331\105\075\046\075\127\233\256\327\126\060
\012\006\001\010\52\020\061\103\316\075\040\003\000\060\020\120\040\011\013
\060\011\000\060\003\125\004\006\023\002\125\123\061\025\060\023\006
\003\125\004\012\023\014\164\150\141\167\161\144\150\054\040\111\1156
\143\050\061\070\060\066\006\003\125\004\012\023\057\050\143\051
\040\062\060\060\060\067\040\164\150\141\167\161\144\150\054\040\111\1156
\143\050\060\040\055\040\106\157\162\040\123\164\150\157\162\151
\172\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042
\006\003\125\004\003\020\033\033\164\150\141\167\161\144\150\040\120\162
\151\155\141\162\171\040\122\157\157\164\040\040\103\010\040\005\050
\040\107\062\060\036\020\175\015\060\067\061\061\060\050\060\060\060\060
\060\060\060\013\020\207\015\056\030\070\060\060\061\070\070\062\063\065\071\065
\071\112\060\020\012\040\011\013\060\001\010\060\031\125\004\004\060\023\002
\125\123\061\012\025\060\023\006\003\125\004\012\023\014\164\150\141
\167\164\145\054\040\111\1156\143\056\060\010\070\060\066\006\003\125
\004\012\030\057\050\143\051\040\062\060\060\067\040\164\150\141
\167\164\145\054\040\111\1156\143\056\040\055\040\106\157\162\040
\141\116\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\151\174\171\061\044\060\042\060\003\125\004\003\023\033\164\150
\141\161\164\145\040\120\162\151\155\141\162\171\040\122\157\157
\164\040\103\010\040\055\040\107\062\060\166\060\020\000\060\007\052
\206\011\031\060\075\002\001\000\060\050\332\010\040\000\042\003\142\000
\004\024\325\324\020\173\322\235\361\122\170\027\376\121\026\277
\005\346\337\234\002\117\015\007\306\000\012\272\014\002\122\055
\042\224\102\071\130\040\376\217\352\111\130\127\63\324\115\377\237\172
\236\342\226\111\174\232\232\255\247\206\011\163\207\312\134\237\233\343\172
\245\252\156\373\272\263\160\030\147\210\024\065\324\243\232\261
\375\255\323\023\357\061\172\250\271\363\373\100\306\221\322\133\035
\225\243\012\060\000\060\170\060\031\125\035\023\001\000\137\7700
\005\060\003\001\000\137\7700\060\161\060\003\125\053\017\001\000\137
\004\004\003\002\000\010\060\060\035\060\003\125\035\016\000\026\004
\024\222\332\300\000\060\000\347\153\177\205\030\356\213\266\312\162
\101\143\070\021\341\127\306\012\060\010\052\206\110\316\075\004\003
\003\003\015\100\000\060\146\002\061\000\033\357\034\127\107\133\247
\346\120\032\125\365\020\021\227\065\015\033\211\107\142\206\167
\050\312\124\116\111\133\362\025\364\070\260\036\014\150\160\214\177\002
\124\032\027\377\333\300\214\076\331\170\020\61\000\034\215\232\174\37
\334\123\322\334\023\170\002\063\075\205\030\043\0123\122\343\0132\061
\135\235\012\256\027\023\051\104\015\047\133\250\347\150\234\022
\367\130\077\056\162\020\127\243\217\241\024\056
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\252\333\274\042\043\217\304\001\241\047\273\070\335\364\035\333
\010\236\360\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\235\352\224\140\044\304\375\042\213\076\314\072\162\331\051\117
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\101\033\060\011\006\003\125\004\060\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\141\164\150\141\167\164
\145\054\040\111\156\143\056\061\070\060\066\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\065\374\046\134\331\120\041\173\311\075\046\075\127\233\256
\327\126
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "thawte Primary Root CA - G3"
#
# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.".,C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only"
"thawte Primary Root CA - G3"

# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

 Certificate "GeoTrust Primary Certification Authority - G2"

# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "GeoTrust Primary Certification Authority - G2"
# Certificate_Type CK_CERTIFICATE_TYPE CKC_X_509
# Subject Multiline_Octal
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\1070\060\066\003\125\004\013\023\057\050\143\051\040\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\141\171\064\044\060\042\006
\003\125\004\003\023\170\164\150\141\167\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\140\001\227\267\106\247\352\264\264\232\326\113\057\367
\220\373
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Primary Certification Authority - G2"
# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Serial Number: 3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\027\204\325\067\363\003\175\354\160\376\127\213\121\232\231\346\020\327\260
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\136\330\153\275\157\075\216\241\061\137\022\340\230\163\152
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\130\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\11\11\156\143\056\061\071\160\067\006\003\125\004
\103\023\060\051\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\040\11\11\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157

Open Source Used In Crosswork Common EMS Services 4.0.0  10074
# Certificate "VeriSign Universal Root Certification Authority"

# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00:95:19

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\154\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\074\262\364\110\012\000\342\376\353\044\073\136\140\076
\303\153

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Universal Root Certification Authority"
# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00-95:19

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\171\312\065\146\207\162\001\252\125\060\011\060\032\012\015\125\004\006\023\110\125\123
\061\127\060\025\060\032\012\015\125\004\012\015\126\016\145\162\151\123\115\143\014\037\060\035\006\031\125
\004\013\023\026\126\145\162\151\123\115\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\115\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\060\060\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\100\032\304\144\041\263\023\041\003\101\273\344\022\032
\305\035

END
CKA_ISSUER_MULTILINE_OCTAL
\060\020\127\050\013\060\011\060\003\125\004\006\023\002\125\123
\061\127\060\025\060\032\012\015\125\004\012\015\126\126\145\162\151\123\115\143\014\037\060\035\006\031\125
\004\013\023\026\126\145\162\151\123\115\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\040\126\145
\162\151\123\115\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\060\060\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\141\154\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4, O=VeriSign, Inc., C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4, O=VeriSign, Inc., C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After: Mon Jan 18 23:59:59 2038
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\000\011\006\003\125\004\000\023\002\125\123\061\027\060\026\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013\023\126\145\162\151\123\151\147\156\040\012\162\165\163\164\040\116\147\156\040\107\006\003\125\004\013\023\060\050\143\051\040\062\060\060\067\040\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013\023\126\145\162\151\123\151\147\156\040\010\154\141\163\163\040\106\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\010\03\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040\106\011\020\165\142\154\151\143\040\120\162\151\155\141\162\171\104\010\134\152\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064
END
# CKA_ID UTF8 "0"
# CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\000\011\006\003\125\004\000\023\002\125\123\061\027\060\026\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013\023\126\145\162\151\123\151\147\156\040\012\162\165\163\164\040\116\147\156\040\107\006\003\125\004\013\023\060\050\143\051\040\062\060\060\067\040\126\145\162\151\123\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013\023\126\145\162\151\123\151\147\156\040\102\154\141\163\163\040\106\011\020\165\142\154\151\143\040\120\162\151\155\141\162\171\104\010\134\152\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\064
END
# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4, OU="(c) 2007 VeriSign, Inc. - For authorized use only", O=VeriSign Trust Network, C=US


# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4, OU="(c) 2007 VeriSign, Inc. - For authorized use only", O=VeriSign Trust Network, C=US

# Not Valid Before: Mon Nov 05 00:00:00 2007

# Not Valid After: Mon Jan 18 23:59:59 2038


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\042\325\330\337\217\002\061\132\121\157\367\235\267\317\212\055\144
\311\077\154\072

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\122\341\347\345\157\072\343\157\363\157\231\033\371\042\101
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\132\061\101\060\003\125\004\006\023\002\125\123
\061\027\060\025\060\003\125\004\012\233\162\143\162\151\123
\151\147\156\040\041\111\156\143\056\061\037\060\035\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\057\200\376\043\214\016\042\017\110\147\022\050\221\207
\254\263
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
#
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
# Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification
# Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\050\023\006\003\125\004\012\014\014\161\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\045\12\14\156\303\272\163\303\255\164\166\303
\241\156\171\113\159\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\125\004\003\014\054\116\145
\164\141\157\143\153\040\101\162\141\156\171\104\005\103\154\141
\163\163\040\107\157\154\144\051\040\106\303\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171

Open Source Used In Crosswork Common EMS Services 4.0.0 10082
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Certificate "Hongkong Post Root CA 1"
#
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\03\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\03\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\060\060\060\022\002\030\240\003\002\001\002\002\002\003
\350\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\010\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\03\101\040\061
\065\061\065\060\065\061\063\061\064\132\027\15\062\063\060\065
\061\065\060\064\065\062\062\071\132\060\017\061\060\011\006
\003\125\004\006\023\002\110\113\061\026\060\024\006\003\125\004
\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164
\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153
\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101
\040\061\060\020\002\010\042\060\015\006\011\052\206\110\206\367\015
\001\001\001\010\005\000\003\202\001\017\000\006\020\002\010\120\022\020
\001\001\000\007\377\070\026\066\351\146\002\211\134\334\222\264\341\220
\371\100\217\171\371\342\275\171\376\002\275\356\044\222\035\042
\366\332\220\162\151\376\327\077\011\324\335\221\265\002\234\320
\215\132\341\125\303\120\206\271\051\046\302\343\331\240\361\115
\003\050\040\200\105\042\055\126\247\073\124\225\120\42\131\037
\050\337\037\040\075\155\242\066\276\043\240\261\156\265\261\047
\077\071\123\011\352\253\152\350\164\262\302\145\134\216\277\174
\103\170\204\135\236\026\374\365\056\117\040\052\010\237\163\363
\030\036\034\232\122\146\036\110\136\343\020\006\217\042\230\341
\145\216\033\135\043\146\073\270\245\062\121\310\206\252\241\251
\123\171\166\224\302\246\154\267\101\360\235\310\006\070\346\324
\014\342\363\073\114\155\120\214\304\020\043\146\073\147
\236\165\162\266\330\002\136\072\220\173\300\102\066\162\354\152
\115\334\357\304\000\033\077\230\030\127\137\046\170\310\326\012\171
\167\277\267\257\267\166\267\124\245\013\200\042\027\135\020\352\157\341
\253\225\021\137\155\074\243\134\115\203\133\362\263\031\121\200
\21\30\13\207\002\003\001\000\001\243\046\060\044\060\022\006\003
\125\035\023\001\000\137\004\010\060\006\001\001\377\002\001\000
\066\001\066\011\052\206\110\110\063\367\015\001\001\005\000\000
\20\02\00\100\000\166\106\325\074\256\342\207\331\136\201\123\002
\230\010\100\100\214\114\274\332\333\356\047\033\202\137\152\105\354
\026\213\117\205\240\363\262\160\275\132\226\272\312\156\155\356
\106\213\156\347\052\056\226\263\031\063\353\264\237\250\262\067
\356\230\250\227\266\056\266\147\047\324\246\111\137\50\342\233\145
\166\236\102\057\334\042\154\232\173\362\132\020\071\261\161\1327
\053\131\350\155\034\230\030\311\052\364\242\201\173\332\351\1101
\242\043\001\164\070\125\213\017\271\056\147\242\040\004\067\332
\234\013\323\207\014\340\217\227\175\064\157\204\011\000\020\006\063
\033\346\064\014\237\221\160\364\200\013\204\010\302\051\322\154
\022\024\344\141\215\254\020\220\236\040\120\273\360\226\157\105
\237\272\136\121\154\117\372\021\072\202\265\210\063\033\150\037\203
\133\055\010\223\355\120\147\101\023\207\054\014\253\224\212\252\116
\174\301\266\137\324\273\326\265\047\057\227\253\156\340\035\342\321
\034\054\037\104\342\374\276\221\241\234\337\326\051\123\163\206
\237\123\330\103\016\135\326\143\202\161\035\200\164\312\256\342
\002\153\331\132

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
"Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc." ,C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\052\046
END

CKA_ISSUER_MULTILINE_OCTAL
\060\130\061\101\060\001\100\06\003\125\004\006\023\002\112\120\061
\053\060\005\010\000\003\125\004\012\203\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
# Certificate "Microsec e-Szigno Root CA 2009"
#
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number: 00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After: Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\001\110\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\140\114\164\144\140\145\140\146
\000\125\004\003\014\036\115\151\143\162\157\163\145\143\140\145
\055\123\172\151\147\156\157\140\122\157\157\164\140\103\102\104
\062\060\060\071\061\037\060\035\006\011\105\206\110\206\367\101
\001\011\000\102\060\020\151\156\146\157\100\145\145\163\172\151\147
\156\157\156\150\165

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\202\060\013\060\001\110\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\140\011\146\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\140\145
\055\123\172\151\147\156\157\140\122\157\157\164\140\103\102\104
\062\060\060\071\061\037\060\035\006\011\105\206\110\206\367\101
\001\011\000\102\060\020\151\156\146\157\100\145\145\163\172\151\147
\156\157\156\150\165

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
Certificate "GlobalSign Root CA - R3"

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Serial Number:04:00:00:00:00:01:21:58:53:08:a2
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
Not Valid Before: Wed Mar 18 10:00:00 2009
Not Valid After : Sun Mar 18 10:00:00 2029
CLASS CK_OBJECT_CLASS CK_CERTIFICATE
TOKEN CK_BBOOL CK_TRUE
PRIVATE CK_BBOOL CK_FALSE
MODIFIABLE CK_BBOOL CK_FALSE
LABEL UTF8 "GlobalSign Root CA - R3"
CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
SUBJECT MULTILINE_OCTAL
06014006010401030000050101030202010201101010
1415141541231511471156041221157157164040103101040
055040122063061023060021100600031250000412300202107107154115714214115411231511471156
0040031023101210711541157142114115411231511471156
END
ID UTF8 "0"
ISSUER MULTILINE_OCTAL
06014006010400060006000600031250004013023027107154115714214115411231511471156041221157157164040103101040
055040122063061023060021100600031250000412300202107107154115714214115411231511471156
0040031023101210711541157142114115411231511471156
END
# Trust for Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133\205\151\166\255
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\132\005\023\125\356\055\272\032\030\076\260\050
END
CKA_ISSUER_MULTILINE_OCTAL
\060\144\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\012\221\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\033\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\13\12\003\125\004\000\000\000\000\001\041\130\123\010\242
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"

# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\106\062\066\063\064
\060\066\067
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\014\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\106\062\066\063\064
\060\066\067
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END

CKA_VALUE MULTILINE_OCTAL
\060\202\006\024\060\202\003\374\240\003\002\001\002\002\010\123
\354\073\356\373\262\110\137\060\150\060\011\052\206\110\206\367
\015\001\001\005\005\000\060\121\061\013\060\011\006\003\125\004
\006\023\002\105\123\061\102\060\100\006\003\125\004\003\014\071
\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162
\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141
\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040
# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number: 53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\103\060\011\006\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151\144\141\144\004\144\145\004\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\073\262\110\137
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Izenpe.com"
#
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\0125\004\006\023\002\010\051\0123061
\024\060\022\006\003\0125\004\012\014\013\111\132\0105\116\120\0105
\040\123\056\010\056061\023\060\021\006\003\0125\004\003\014\012
\111\172\145\015\016\0145\056\043\057\0155
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\026\026\027\013\022\011\010\013\027\134\131\136\123\1327\031
\1346175
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\013\060\011\006\003\0125\004\006\023\002\010\051\0125
\061\103\060\010\010\060\003\0125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\055\061\022\060\020\006\003\0125\004\005\023\011
\101\107\060\067\064\063\062\070\067\061\033\060\031\006\003\0125
\004\012\023\022\010\103\040\03\03\141\155\145\162\146\151\162\155
\141\040\123\056\010\056\061\051\060\047\006\003\0125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\013\037\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
(see current address at www.camerfirma.com/address), C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU

Not Valid After : Sat Jul 31 12:29:50 2038


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"

Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU

Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL UTF8  "Global Chambersign Root - 2008"
CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509
CKA_SUBJECT  MULTILINE_OCTAL
"Global Chambersign Root - 2008"
CKA_SERIAL_NUMBER  MULTILINE_OCTAL
"Global Chambersign Root - 2008"
CKA_VALUE  MULTILINE_OCTAL
"Global Chambersign Root - 2008"

CKA_ID UTF8  "0"

CKA_ISSUER  MULTILINE_OCTAL
"Global Chambersign Root - 2008"

CKA_SERIAL_NUMBER  MULTILINE_OCTAL
"Global Chambersign Root - 2008"

CKA_VALUE  MULTILINE_OCTAL
"Global Chambersign Root - 2008"
# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:e9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\321\124\361\151\343\137\063\331\127\027\344\034\376\176\027\270\254\136\363\324
\026\262\103\011\014\115\366\247\153\264\231\204\145\312\172\210
\342\342\104\276\134\367\352\034\365
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

"Open Source Used In Crosswork Common EMS Services 4.0.0 10115"
# Certificate "Starfield Root Certificate Authority - G2"

# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037
# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


# Certificate "Starfield Services Root Certificate Authority - G2"

# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\161\144\115\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\049\011\115\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\013\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\049\011\115\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\013\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\357\060\202\002\327\240\000\03\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\123\060\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012\023
\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\049\011\115\143\056\061\073\060
\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\103\145\146\164\151\146\151\143\141\164\145\040\010\165\164
\157\162\151\164\171\040\055\040\107\062\060\036\027\105\060\071
\060\071\006\006\106\060\060\060\060\060\060\132\027\015\063\067\061
\062\063\061\016\062\063\065\071\065\071\013\060\201\123\060\010\130\060
\011\006\003\125\004\006\023\002\125\123\061\020\060\016\006\003
\125\004\010\023\007\101\162\151\172\157\156\141\061\023\060\021
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"

CKA_ISSUER MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143\350\045\157\077
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AffirmTrust Commercial"
#
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\140\131\101\146\146\151\162\155 \\
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026 \\
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155 \\
\145\162\143\151\141\154
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\104\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\140\131\101\146\146\151\162\155 \\
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026 \\
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155 \\
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\167\167\006\047\046\125\126\174
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\106\020\020\026\124\000\003\002\001\002\002\010\167 \\
\167\006\047\046\251\261\174\060\015\006\011\052\206\110\206\367 \\
\015\001\001\013\005\000\060\104\061\013\060\011\006\003\125\004 \\
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\140\131 \\
\101\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006 \\
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163 \\
\164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015 \\
\061\160\060\060\061\062\071\106\106\106\060\066\060\066\013\022 \\
\060\060\063\061\061\104\060\060\060\060\060\013\022\060\010\040 \\
\060\060\11\006\003\125\004\006\023\002\125\123\061\024\060\022 \\
\003\125\004\012\010\140\131\101\146\146\151\162\155\124\162\165 \\
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151 \\
\162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151 \\
\141\154\060\202\001\042\060\015\006\011\052\206\110\206\367
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US

END

Open Source Used In Crosswork Common EMS Services 4.0.0 10124
# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\200\334\351\156\054
\307\262\170\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\371\167\167\006\047\046\251\261\174
END
CKA_ISSUER MULTILINE_OCTAL
\060\046\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\010\146\146\151\162\155
\124\162\165\163\164\061\103\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\013\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261\174
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services 4.0.0 10125
# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\146\305\062\321\326\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177
END

Open Source Used In Crosswork Common EMS Services 4.0.0 10127
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "AffirmTrust Premium"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL

# CKA_ID UTF8 "0"

# CKA_ISSUER MULTILINE_OCTAL

# CKA_SERIAL_NUMBER MULTILINE_OCTAL

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END
END  

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE  
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE  
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Premium"  
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US  
# Serial Number:6d:8c:14:46:b1:a6:0a:ee  
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"

# Certificate "AffirmTrust Premium ECC"

# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8:ac:7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"

Open Source Used In Crosswork Common EMS Services 4.0.0 10131
# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312
\353\377\303\273
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\125\123\006\003\125\004\003\014\027
\101\146\146\151\162\155
\151\165\155\040\105\103\103
END

# Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_ISSUER MULTILINE_OCTAL
\013\047\002\065\051\261\100\225\347\371\350\234\125\210\031\106
\326\267\064\365\176\316\071\232\331\070\361\121\367\117\054

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Certificate "TWCA Root Certification Authority"

Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
Not Valid After: Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\120\060\060\020\060\003\125\004\012\014\011\112\101\111\112\101\116\105\103\101\061\020\060\016\006\033\125\004\013\014\007\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\013\14\164\151\157\160\040\011\165\164\150\157\162\151\164\171
CKA_ID UTF8 "0"

Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
Not Valid After: Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\120\060\060\020\060\003\125\004\012\014\011\112\101\111\112\101\116\105\103\101\061\020\060\016\006\033\125\004\013\014\007\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\013\14\164\151\157\160\040\011\165\164\150\157\162\151\164\171
CKA_ID UTF8 "0"

Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
Not Valid After: Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061\120\060\060\020\060\003\125\004\012\014\011\112\101\111\112\101\116\105\103\101\061\020\060\016\006\033\125\004\013\014\007\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\124\127\013\010\040\122\157\157\164\040\013\014\041\013\14\164\151\157\160\040\011\165\164\150\157\162\151\164\171
CKA_ID UTF8 "0"
# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Not Valid After : Tue Dec 31 15:59:59 2030

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# Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl, CN=DigiNotar Root CA, O=DigiNotar, C=NL
# Serial Number: 0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

---
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\150\011\101\001\026\021
\151\156\146\157\100\144\151\147\151\151\156\157\164\141\162\056\156
\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\040\060\036\006\011\052\206\110\206\367\150\011\101\001\026\021
\151\156\146\157\100\144\151\147\151\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\212\020\060\202\003\162\240\003\002\001\002\002\020\017
\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\015\006\011\052\206\110\206\367\015\001\100\005\005\000\060\137
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022\060
\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164\141
\162\061\032\060\030\006\003\125\004\003\023\021\104\151\147\151
\116\157\164\141\162\040\122\157\157\164\040\103\101\061
\036\006\011\015\020\206\110\206\367\150\011\101\001\026\021\115\116
\146\157\100\144\151\147\151\151\156\157\164\141\162\056\156\154\060
\036\027\015\060\067\060\067\062\067\061\067\061\071\063\067\132
\027\015\062\065\060\063\063\061\061\070\061\071\062\062\132\060
\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061\022
\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157\164
\141\116\157\032\060\030\006\003\125\004\003\023\021\104\151\147
\151\116\157\164\141\162\040\122\157\157\164\040\103\101\061\040
\060\036\006\011\052\206\110\206\367\150\011\101\001\026\021\115
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END
# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 2684345455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After: Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheed G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
## Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2, O=DigiNotar B.V., C=NL

# Serial Number: 268435455 (0xfffffff)

# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2, O=DigiNotar B.V., C=NL

# Not Valid Before: Wed May 12, 08:51:39 2010

# Not Valid After: Mon Mar 23, 09:50:05 2020


## CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

## CKA_TOKEN CK_BBOOL CK_TRUE

## CKA_PRIVATE CK_BBOOL CK_FALSE

## CKA_MODIFIABLE CK_BBOOL CK_FALSE

## CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"

## CKA_CERT_SHA1_HASH MULTILINE_OCTAL

## CKA_CERT_MD5_HASH MULTILINE_OCTAL

## CKA_ISSUER MULTILINE_OCTAL

## CKA_SERIAL_NUMBER MULTILINE_OCTAL

## CKA_CERT_MD5_HASH MULTILINE_OCTAL

## CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Security Communication RootCA2"
#
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\247\353\000\256\215\067
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103
END
CKA_ISSUER MULTILINE_OCTAL
\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\111\141\240\040\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "EC-ACC"
#
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel
Open Source Used In Crosswork Common EMS Services 4.0.0  10152
AKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
AKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
AKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After: Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\346\167\114\013\155\247\326\272
\246\112\362\350

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\363\061\013\060\011\006\003\125\004\006\023\002\105\123
\061\173\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\156\141\040\144\145\040\103
\145\162\164\151\146\143\143\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\040\060\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\143\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\125\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\143\143\143\151\157\040\103\141\164\141
\154\141\151\145\163\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\036\335
\304\001
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"

END
# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR

# Serial Number: 0 (0x0)

# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR

# Not Valid Before: Tue Dec 06 13:49:52 2011

# Not Valid After : Mon Dec 01 13:49:52 2031


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.";L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After: Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

CKA_ISSUER MULTILINE_OCTAL
\060\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156\157\151\143\141\100\164\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\063\060\066\006\003\125\004\012\023\010\111\154\154\151\156\157\151\143\141\100\164\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\063\060\066\006\003\125\004\012\023\010\111\154\154\151\156\157\151\143\141\100\164\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\063\060\066\006\003\125\004\012\023\010\111\154\154\151\156\157\151\143\141\100\164\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\063\060\066\006\003\125\004\012\023\010\111\154\154\151\156\157\151\143\141\100\164\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Actalis Authentication Root CA"
#
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:ce:4:e:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\362\363\112\316\031\053\335
\307\216\234\254
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\001\110\060\003\125\004\006\023\002\111\124\061
\016\060\014\012\040\007\140\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\013\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Trustis FPS Root CA"
#
# Issuer: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Subject: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Not Valid Before: Tue Dec 23 12:14:06 2003
# Not Valid After : Sun Jan 21 11:36:54 2024
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustis FPS Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\001\110\060\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\171\24\162\165\163\164\151
\163\040\114\151\155\151\164\145\144\061\034\060\032\006\003\125
\004\013\023\023\124\162\165\163\164\151\163\040\106\120\123\040
\122\157\157\164\040\013\101
END

CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\153\061\013\060\001\110\060\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\171\24\162\165\163\164\151
END

# Trust for "Trustis FPS Root CA"
# Issuer: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Subject: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Not Valid Before: Tue Dec 23 12:14:06 2003
# Not Valid After : Sun Jan 21 11:36:54 2024

END

END
# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

# Certificate "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040
# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services 4.0.0 10167
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\100\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\062\062\067\060\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\013\154\141\163\163\040\006\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Buypass Class 2 Root CA"
#
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERTIFICATE_TYPE CKCERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\062\062\067\060\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\013\154\141\163\163\040\006\040\122\157\157\164\040\103\101
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"

# Certificate "T-TeleSec GlobalRoot Class 3"

# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Gmbh,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Gmbh,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\071\122\212\035\376\216\057\047\352\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\120\060\013\060\001\1\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "EE Certification Centre Root CA"

# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030

**CAA_CLASS** **CK_OBJECT_CLASS** **CKO_CERTIFICATE**
**CAA_TOKEN** **CK_BBOOL** **CK_FALSE**
**CAA_PRIVATE** **CK_BBOOL** **CK_FALSE**
**CAA_MODIFIABLE** **CK_BBOOL** **CK_FALSE**
**CAA_ID** UTF8 "EE Certification Centre Root CA"
**CAA_CERTIFICATE_TYPE** **CK_CERTIFICATE_TYPE** **CKC_X_509**
**CAA_SUBJECT** **MULTILINE_OCTAL**

**CAA_ISSUER** **MULTILINE_OCTAL**

**CAA_SERIAL_NUMBER** **MULTILINE_OCTAL**

**CAA_VALUE** **MULTILINE_OCTAL**

**CAA_SERIAL_NUMBER** **MULTILINE_OCTAL**

**CAA_VALUE** **MULTILINE_OCTAL**

Open Source Used In Crosswork Common EMS Services 4.0.0 10175
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "EE Certification Centre Root CA"

# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Serial Number:54:80:f9:a7:ed:3f:00:4c:89:d8:e3:71:e6:4a
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_ISSUER MULTILINE_OCTAL
\173\125\201\136\130\343\123\167\1247\045\353\257\303
\307\314\165\301\122\305\235
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\136\210\324\175\032\112\176\375\204\056\122\353\001\1324\157
END

CKA_ISSUER MULTILINE_OCTAL
\106\165\061\103\060\011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\004\031\101\123\040\123\145\162
\164\151\146\151\164\151\143\146\151\143\143\164\015\115\156\040\103
\145\156\164\162\145\040\122\157\156\040\103\101\106\016\030\060
\026\006\011\105\206\110\063\67\015\001\011\001\026\011\160\153
\15\100\163\153\056\145

END
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021
Certificate "D-TRUST Root Class 3 CA 2 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

Certificate "TURKTRUST Mis-issued Intermediate CA 2"

# Serial Number: 2148 (0x864)
# Subject: E=ileti@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez Bankasi,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"
# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
null
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
Open Source Used In Crosswork Common EMS Services 4.0.0 10185
Open Source Used In Crosswork Common EMS Services 4.0.0 10188

# Trust for “CA Disig Root R2”
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “CA Disig Root R2”
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\137\330\047\247\027\232\105\124\070\032\103\001\073\003
END

CKA_ISSUER MULTILINE_OCTAL
\060\122\206\011\03\06\001\11\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\116
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\01\03\01\06\027\006\003\125
\004\003\023\020\103\101\04\104\151\163\151\147\040\122\157\157
\164\040\122\062
END
# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

Open Source Used In Crosswork Common EMS Services 4.0.0 10189


```
\053\100\325\177\371\100\1047\130\054\310\355\110\221\174\077\246
\000\317\304\051\163\021\066\336\206\031\076\235\356\031\212\033
\325\260\355\216\075\234\052\230\000\153\330\075\146\343\074\015\275
\325\224\134\342\342\247\065\033\004\000\366\077\132\215\352\103
\275\137\211\035\251\301\260\314\231\342\115\000\012\332\311\047
\133\47\023\220\134\344\365\063\242\125\155\334\340\011\115\057
\261\046\133\047\165\000\011\304\142\167\051\010\137\236\131\254
\266\176\255\237\124\060\042\003\301\036\161\144\376\371\070\012
\022\60\030\355\020\024\254\043\313\006\034\036\244\175\215\015\336
\047\101\350\253\332\025\267\260\043\335\053\250\032\332\045\207
\355\350\125\104\115\210\364\066\176\204\232\170\254\367\016\126
\111\106\326\063\045\326\204\120\012\154\040\022\035\052\325\276
\274\362\160\201\244\160\140\276\005\265\233\236\004\104\276\141
\043\254\351\245\044\214\021\200\224\132\242\242\271\111\322\301
\334\321\247\355\061\021\054\236\031\124\356\341\125\341\030\352
\317\015\204\344\027\267\242\174\245\336\125\045\006\356\314\300
\207\134\100\332\341\142\225\077\125\340\065\307\270\204\276\264\135
\315\172\203\001\162\360\074\346\137\035\256\265\205\306\046\337
\346\301\123\351\036\002\107\237\052\250\155\251\113\333\173\354\105
\167\177\230\047\232\062\135\052\343\204\356\305\230\146\057\226
\040\035\335\330\047\327\260\371\137\363\331\175\315\320\237\217
\013\024\130\121\237\057\213\030\070\055\336\350\217\326\215\207
\244\365\126\013\026\231\105\346\244\126\264\064\270\141\067\311
\302\130\200\033\324\027\241\374\131\215\351\021\360\321\017\113
\125\064\106\052\213\206\073
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

"Open Source Used In Crosswork Common EMS Services 4.0.0 10192"
# Certificate "TWCA Global Root CA"

# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

END
# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

END

# Certificate "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Serial Number:00:95:be:16:a0:f7:2e:46:17:39:82:fa:8b:cd:96
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064\151\207\202\067
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
END
CKA_ISSUER_MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\100\002\225\276\026\024\067\056\106\361\173\071\202\162\372\213\315\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Open Source Used In Crosswork Common EMS Services 4.0.0  10199
# Certificate "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra EBG Bilişim Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

# Serial Number: 6a:68:3e:9c:51:9b:cb:53

# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra EBG Bilişim Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR

# Not Valid Before: Tue Mar 05 12:09:48 2013

# Not Valid After : Fri Mar 03 12:09:48 2023


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_VALUE MULTILINE_OCTAL
\060\020\202\006\113\060\202\202\004\063\240\003\002\001\002\002\010\152
\150\076\234\121\233\313\123\060\015\006\060\11\052\206\110\206\367
\015\001\001\013\005\000\060\201\202\262\061\103\060\011\006\003\125
\004\000\023\002\012\242\022\061\170\060\150\006\003\125\004\004\070\114
\006\101\156\153\141\162\141\061\105\006\060\76\006\003\125\200\04\012
\014\067\105\055\124\165\304\237\162\141\040\05\102\017\040\010
\151\151\151\151\305\237\151\155\040\124\145\153\156\157\154\157\152
\151\151\151\145\162\151\040\166\145\04\011\105\172\155\145\164\154
\145\162\151\040\101\056\305\236\056\061\046\060\044\006\003\125
\004\013\014\035\105\055\124\165\147\162\141\040\123\145\162\164
\151\146\151\153\141\163\171\157\156\040\115\145\162\153\145\172
\151\061\059\060\046\060\003\125\004\003\014\037\105\055\124\165
\147\162\141\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\151\057\162\151\164\171\060\036\027\015\061
\063\060\063\060\065\061\046\060\007\040\071\130\202\071\056\026\063
\060\063\060\063\061\046\060\071\064\070\132\060\202\162\061\013
\060\011\006\003\125\004\006\023\002\124\122\061\017\060\015\006
\003\125\004\007\014\060\061\105\156\153\141\162\141\061\100\060\076
\006\060\03\125\004\004\121\040\067\105\055\124\165\304\237\162\141\040
\105\102\017\040\012\151\154\151\305\237\151\155\040\124\145\153
\156\157\154\157\152\151\154\145\162\151\040\166\145\154\04\011\105\151
\172\151\154\156\145\145\162\151\040\101\056\305\236\056\061\046
\060\040\060\003\125\004\013\014\035\105\055\124\165\147\162\141
\040\123\145\162\164\151\153\141\163\171\157\156\040\115
\145\162\153\145\172\151\061\050\060\046\060\003\125\004\003\014
\037\105\055\124\165\147\162\141\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\060\02\02\02\04\206\015\006\011\052\206\110\206\367\150\010\001
\010\001\000\000\03\202\02\17\00\060\202\02\12\02\02\02\02\02
\000\03\42\365\077\223\005\121\036\205\142\124\136\172\013\365\030
\007\203\256\176\257\174\367\324\212\153\245\143\103\071\271\113
\367\303\306\144\21\11\075\224\056\124\200\122\071\071\013\113\113
\335\205\007\166\207\314\277\057\225\114\134\175\247\075\274\107
\017\230\160\037\214\205\036\164\216\222\155\033\100\321\231\105
\273\161\156\310\251\153\232\300\204\061\125\31\120\33\13\353\053
\064\350\217\227\153\001\123\332\250\161\12\02\10\252\133\222\164\205
\103\323\200\256\241\120\133\256\263\352\136\313\026\232\167\104
\310\241\366\124\150\316\333\217\227\053\272\133\100\002\014\144
\027\300\265\223\315\341\361\023\146\316\014\171\357\32\122\050
\253\137\240\200\222\220\060\163\031\216\217\341\214\007\242\030\273
\112\360\352\037\025\250\036\045\314\244\106\370\033\042\357\263
\016\103\272\054\044\270\305\054\134\324\034\370\135\144\275\303
\223\136\050\247\077\047\361\216\036\323\052\120\005\243\125\331

Open Source Used In Crosswork Common EMS Services 4.0.0 10201
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra E Bibliografya Teknolojileri ve Hizmetleri A.S.,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra E Bibliografya Teknolojileri ve Hizmetleri A.S.,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\136\322\222\241\234\240\015\155\243\142
\217\303\122\071

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111

CKA_ISSUER MULTILINE_OCTAL
\060\201\262\061\103\060\011\006\003\125\004\006\023\002\124\122
\061\101\260\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\010\060\076\006\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\130\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\154\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 2"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\013\060\001\11\006\003\125\004\006\023\002\104\105
\061\053\060\051\060\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\103\106
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\013\060\001\11\006\003\125\004\006\023\002\104\105
\061\053\060\051\060\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\103\106
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
# Trust for "T-TeleSec GlobalRoot Class 2"

# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

# Serial Number: 1 (0x1)

# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE


# Not Valid After: Sat Oct 01 23:59:59 2033

# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A


END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317
\027\330\224\351
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END
# Certificate "Atos TrustedRoot 2011"

# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\060\151\165\030\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\060\151\165\030\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number: 5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\132\46\267\152\160\113\125\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060\061\061\015\050\013\006\003\125\004\012\014\004\101\164\157\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\131\142\054\137\263\062
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "QuoVadis Root CA 1 G3"

# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):

CKA_CLASS CKOBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\103\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\100\061\103\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\102\001\100\202\002\204\170
\130\137\056\255\054\031\113\343\067\007\065\064\023\050\265\226
\324\145\223\060\15\005\150\052\206\110\206\367\015\001\100\101\13
\005\060\110\061\103\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\227\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\061\040\107\063\060\036\027\015
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163\300\223\171\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\006\003\125\004\006\023\021\115\061\031\060\027\006\003\125\004\012\230\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\230\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA 2 G3"
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJKT MULTILINE_OCTAL
\060\110\061\013\060\001\006\003\125\004\006\023\021\115\061\031\060\027\006\003\125\004\012\230\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\230\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063

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# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After: Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\122\107\012\006\003\000\030\023\012\102\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\012\125\004\012\023\020\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\062\040\107\063

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\127\104\127\104\127\064\044\123\122\123\123\065\362\161\165\050

CKA_ISSUER_MULTILINE_OCTAL
\060\110\006\101\103\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103\101\040\062\040\107\063

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\024\104\127\064\044\133\202\111\123\065\362\316\270\053\073\133\247\046\360\165\050

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 3 G3"

# Issuer: CN=QuoVadis Root CA 3 G3, O=QuoVadis Limited, C=BM
# Subject: CN=QuoVadis Root CA 3 G3, O=QuoVadis Limited, C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After: Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\111\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\204\056\365\233\200\205\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035

CKA_VALUE MULTILINE_OCTAL
\060\202\020\051\140\060\020\003\110\240\003\002\001\002\002\024\056
\365\233\202\005\247\333\172\377\325\243\251\356\275\003\240\317
\022\152\035\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\110\011\030\060\011\006\003\125\004\006\023\002\102
\115\061\031\060\027\006\003\125\004\012\023\020\121\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\036\060\034
\006\060\012\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\164\040\103\101\040\063\040\107\063\060\036\027\015
\061\062\060\061\106\062\062\060\062\066\066\063\062\132\027\015\064
\062\060\061\061\062\062\060\062\066\063\062\132\060\110\061\013
\060\011\006\003\125\004\006\023\002\102\115\061\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\163\040\114
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\042\056\175 END 
CKA_CERT_MD5_HASH MULTILINE_OCTAL\337\175\271\157\150\024\11\337\211\127\003\227\103\260\327 END 
CKA_ISSUER MULTILINE_OCTAL\060\010\061\013\060\011\006\003\125\004\006\023\002\102\115\061 \031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144 \151\163\040\114\151\155\151\164\145\144\061\036\060\003\060\003 \125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157 \157\164\040\103\101\040\063\040\107\063 END 
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275 \003\240\317\022\152\035 END 
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR 
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR 
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST 
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE 

# Certificate "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509 
CKA_TOKEN CK_BBOOL CK_TRUE 
CKA_PRIVATE CK_BBOOL CK_FALSE 
CKA_MODIFIABLE CK_BBOOL CK_FALSE 
CKA_LABEL UTF8 "DigiCert Assured ID Root G2" 
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 
CKA_SUBJECT MULTILINE_OCTAL \060\145\061\13\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 \155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151 \103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040 \122\157\157\164\040\107\062 END 
CKA_ID UTF8 "0"
# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
# Trust for "DigiCert Assured ID Root G3"

**# Issuer:** CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US


**# Subject:** CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US

**# Not Valid Before:** Thu Aug 01 12:00:00 2013

**# Not Valid After:** Fri Jan 15 12:00:00 2038

**# Fingerprint (SHA-256):**

```
```


**CKA_CLASS** CK_OBJECT_CLASS CKO_NSS_TRUST

**CKA_TOKEN** CK_BBOOL CK_TRUE

**CKA_PRIVATE** CK_BBOOL CK_FALSE

**CKA_MODIFIABLE** CK_BBOOL CK_FALSE

**CKA_LABEL** UTF8 "DigiCert Assured ID Root G3"

**CKA_CERT_SHA1_HASH** MULTILINE_OCTAL

```
\x36\x52\x27\x24\x2d\x11\x03\x06\x00\x04\x66\x23\x27\x33\x01\x10\x05\x24\x53\x00\x11
```

**CKA_CERT_MD5_HASH** MULTILINE_OCTAL

```
\x17\x41\x77\x14\x50\x61\x01\x04\x20\x33\x37\x21\x25\x27\x07\x60\x23\x34\x13\x25\x15\x63\x73
```

**CKA_ISSUER** MULTILINE_OCTAL

```
\00\14\50\06\10\03\06\00\11\00\06\00\31\12\50\04\00\02\03\02\12\5\12\30\01
\02\50\00\23\00\00\03\12\50\04\01\23\01\41\04\15\1\14\7\15\1\10\3\14\5
\16\2\16\4\0\0\11\1\15\6\13\0\6\0\31\0\0\0\2\7\0\0\6\0\0\3\12\50\04\01\13\023
\02\0\16\7\16\7\16\0\5\1\14\1\1\1\14\7\15\1\13\14\5\16\2\16\4\0\5\6\143\157
\15\50\01\4\0\6\0\0\42\0\0\6\0\0\3\12\50\04\00\3\0\2\3\0\3\3\1\0\4\1\15\7\151
\10\3\14\5\16\2\16\4\0\0\1\1\1\1\6\3\16\3\16\5\16\2\14\5\1\4\0\0\11\1\10\4\04
\12\2\15\7\157\16\4\0\0\107\063
```

**CKA_SERIAL_NUMBER** MULTILINE_OCTAL

```
\00\20\02\01\13\24\13\32\03\37\24\02\65\11\10\4\25\73\15\04\240
```

**CKA_TRUST_SERVER_AUTH** CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

**CKA_TRUST_EMAIL_PROTECTION** CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

**CKA_TRUST_CODE_SIGNING** CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

**CKA_TRUST_STEP_UP_APPROVED** CK_BBOOL CK_FALSE

```
# Certificate "DigiCert Global Root G2"
```
# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314 \215\117\202\244
END
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314 \215\117\202\244
END

# Certificate "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Trust for "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\350\075\064\236

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END

CKA_ISSUER MULTILINE_OCTAL
\060\141\060\013\060\011\060\003\125\004\006\023\002\125\123\061
\025\060\023\060\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\066\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\033\244\017\325\253
\105\162
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Trusted Root G4"
#
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\060\003\125\004\006\023\002\125\123\061
\025\060\023\060\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\066\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\164\040\107\063

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#


\121\052\031\131\161\170\141\014\325\325\020\070\004\030\026\316\025\111\120
\257\363\222\213\126\336\346\141\017\322\220\050\000\347\120\032\344
\033\225\325\312\41\27\134\242\123\33\26\1100\036\357\320\17\117
\102\154\311\012\274\356\010\372\072\161\1245\310\115\046\245\065
\375\21\135\274\205\142\035\062\322\224\005\124\355\023\127\301
\333\372\020\317\031\267\213\112\032\217\001\266\047\225\123\350
\266\011\155\133\274\150\324\043\350\213\12\1242\126\371\136\0246
\200\240\326\036\263\274\017\017\123\165\051\125\232\023\167\034
\336\214\201\141\255\007\020\017\021\255\075\007\321\165\0274
\317\363\146\176
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\242\003\175\077\310\072\115\175
\167\135\005\344

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\036\237\252\140\037\057\264\353\311\067\272\123\056\165\111

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\147\151\103\145
\162\164\040\111\115\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\140\003\175\003\125\004\003\023\030\014\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\023\333\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO RSA Certification Authority"
#
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CLASSIFIER TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\012\050\060\001\013\006\000\003\175\000\000\006\002\033\002\107\102
\061\033\060\031\006\000\031\125\004\006\023\002\107\102
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\102\060\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\012\050\060\001\013\006\000\003\175\004\006\023\002\107\102
\061\033\060\031\006\000\031\125\004\012\023\021\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\102\060\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117\165\164\150\157\162\151\164\171
END
# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\040\363\304\344\345\315\015\250\313\221\222\261\174\205\354
\265\024\151\146\016\202\347\315\316\310\055\246\121\177\041\301
\065\123\205\006\112\135\237\255\273\033\137\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\066\031\024\066\221\125\304\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\066\020\120\205\061\013\060\001\11\006\003\125\004\006\023\002\107\102
\061\133\060\031\006\003\125\004\010\002\022\107\162\145\141\164
\145\162\040\115\141\115\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\115\151\155\164\145\144\061\053\060\051\006
\003\125\004\003\023\021\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

END

END
# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015
\332\271\255\216
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\067\031\063\243\162\250\017\341\125\345\265
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\060\003\125\004\010\023\012\111\145\167\040\112
\145\162\163\145\171\061\024\060\022\060\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\010\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\01375\155\060\374\243\312\121\125\033\274\144\016\065
\003\055
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\201\202\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\033\023\045\125\123\105\122\124\126\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\201\202\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\033\023\045\125\123\105\122\124\126\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_VALUE MULTILINE_OCTAL
Open Source Used In Crosswork Common EMS Services 4.0.0

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Open Source Used In Crosswork Common EMS Services 4.0.0

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\014\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\175\177\255\375\311\035\006\203\050\314\044\301
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\121\060\061\130\060\011\006\000\03\125\004\006\023\002\125\123
\061\023\060\021\006\000\03\125\004\010\002\121\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\000\03\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\030\040\010\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\135\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign ECC Root CA - R4"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\013\101\040\055\054\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\016\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\013\101\040\055\054\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\016\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\052\070\244\034\226\012\004\336\102\262\050\245\013\350
\064\230\002
END
CKA_VALUE MULTILINE_OCTAL
\060\020\021\052\070\244\034\226\012\004\336\102\262\050\245\013\350
\064\230\002
Open Source Used In Crosswork Common EMS Services 4.0.0 10247

# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\x0060\x11\x0060\x23\x0060\x07\x0052\x2061\x1103\x16075\x002\x001\x0060\x010052
\x2061\x1103\x16075\x003\x001\x0070\x003\x102\x000\x004\x2703\x0617\x11323217
\x154045\x162370\x056071\x031\x0340032442562323452071007011
\x026312143261271206370\x2012212732103112731361023372163241
\x3671451023770363010002621561630163773070441345030
\x2442523331161077250324271316214035243102060100060
\x016006003125035017001001137700400403002001006060
\x017006003125035023001001137700400560060030010011377
\x06003050060312503501600042600004024124260173255105
\x270334210017737301215613731276063311074243204325060
\x01200601005220611031607500403030200331100000060105
\x00204100033422241240023242631703126013463040041227
\x2203321024122705500335435607433231561321250154166274
\x24233362730020404725020504706533126360243362107
\x32226715610330200002752251472460252221336372224354
\x173013370237204

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"

CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 \142\141\154\123\151\147\156\040\012\121\157\157\164 \040\013\101\040\055\040\122\065\061\023\060\021\006\003\125\004 \012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060 \021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151 \147\156 END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157 \142\141\154\123\151\147\156\040\012\121\157\157\164 \040\013\101\040\055\040\122\065\061\023\060\021\006\003\125\004 \012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060 \021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151 \147\156 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\11\134\004\056\027\3125\371\012\167\212\161\371 \112\330\154
END

CKA_VALUE MULTILINE_OCTAL
\060\202\001\244\240\003\002\020\001\140
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\012\006\010\052\206\110\316\165\054\003\003\060\120\061\104
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\030\040\122\157\157\164\040\103\101\040
\005\040\122\065\056\012\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\061\157
\060\060\020\006\007\052\206\110\316\075\020\001\060\050\053
\201\004\000\042\003\142\000\004\107\105\016\226\373\175\135\277
\351\071\332\141\137\013\266\325\173\036\222\072\110\131\034
\360\142\060\155\300\172\050\376\032\247\134\263\266\314\122\7347
\105\324\130\372\321\167\155\103\242\200\207\145\064\102\037\172
\335\053\074\063\241\130\235\115\244\157\101\225\070\177\111\1036
\204\353\321\236\111\142\207\224\070\140\207\205\112\146\237\235
\131\123\15\227\14\060\206\112\243\102\060\100\060\016\060\003
\125\035\017\001\001\377\004\005\050\060\030\001\000\1377\006\035\006
\003\125\350\166\040\026\060\042\024\075\346\051\110\233\352\007\312
\041\104\112\046\336\156\336\322\203\320\237\131\060\012\006\010
\052\206\110\316\075\004\003\003\03\150\000\060\145\002\061\1000
\345\151\022\111\156\333\036\061\127\011\103\142\227\370\037\3375
\123\342\175\022\311\355\174\144\323\313\005\045\213\126\331\1240
\347\136\135\116\103\203\234\133\166\051\124\011\046\041\152\142
\002\060\160\163\225\171\134\352\073\331\170\112\025\165\222
\073\310\134\375\110\357\015\164\042\250\010\342\156\305\111\136
\307\014\274\247\141\151\361\367\073\341\052\131\371\053\363\146
\120\067
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106\072\033\151\252
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010
END
CKA_ISSUER MULTILINE_OCTAL
Ol\006\010\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Staat der Nederlanden Root CA - G3"
#
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After: Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

END
# Certificate "Staat der Nederlanden EV Root CA"

# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000103 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215

CKA_VALUE MULTILINE_OCTAL
\060\202\003\130\240\003\002\001\002\002\004\000
\230\226\215\060\015\006\011\052\206\110\206\367\015\001\001\013
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END

# Trust for "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051\264\355\333\273\END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\350\032\160\037\300\365\272\END

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040\105\126\040\122\157\157\164\040\0103\101\END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215\END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "IdenTrust Commercial Root CA 1"
#
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1, O=IdenTrust, C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1, O=IdenTrust, C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After: Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\x33\x71\x16\x76\x25\x21\x12\x33\x11\x16\x31\x11\x12\x5\x20\x14\x05\x10\x33\x13\x7
\x27\x4\x3\x6\x07\x2\x45

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\x26\x3\x7\x6\x1\x63\x165\x35\x2\x40\x32\x34\x3176\x111\x143\x111\x131\x273\x307

CKA_ISSUER MULTILINE_OCTAL
\x06\x01\x12\x06\x01\x01\x00\x03\x04\x01\x05\x04\x02\x95\x25\x40\x02\x23\x02\x25\x12\x30\x61
\x22\x02\x06\x02\x01\x00\x03\x21\x50\x04\x01\x02\x23\x01\x11\x114\x145\x156\x124\x162
\x165\x163\x164\x06\x10\x06\x00\x03\x21\x50\x04\x01\x02\x30\x03\x23\x03\x36\x111\x144
\x145\x156\x124\x161\x165\x163\x164\x04\x01\x03\x15\x7\x15\x15\x145\x156\x124\x13\x151
\x141\x154\x04\x122\x157\x157\x164\x04\x01\x03\x10\x140\x04\x01

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\x00\x2\x02\x01\x01\x01\x02\x1\x00\x00\x00\x00\x00\x00\x10\x5\x04\x3\x31\x10\x4\x26\x5\x00\x00
\x00\x00

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# Certificate "IdenTrust Public Sector Root CA 1"

# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number: 01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\001\111\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\001\111\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\005\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\146\060\202\003\116\240\003\002\001\002\002\200\012
\001\102\200\000\000\000\110\043\317\106\174\000\000
\015\006\001\105\220\061\102\063\367\015\001\001\130\005\000\060\115
\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061\022\060
\020\006\003\125\004\012\023\011\111\144\145\156\124\162\165\163

\353\303\243\321\024\243\060\015\006\011\052\206\110\206\367\015
\001\001\013\005\000\003\202\002\001\000\107\372\335\012\260\021
\221\070\255\115\135\367\334\016\227\124\031\202\110\207\124\214
\252\144\231\303\132\376\210\001\130\013\024\231\261\043\124\043
\267\152\035\040\127\345\001\142\101\027\323\011\133\165\313\156
\124\220\165\376\032\237\201\013\302\335\327\367\011\132\013\162
\205\344\036\011\152\075\063\363\041\232\346\025\176\255\121\325
\015\020\355\175\102\300\217\356\300\232\010\325\01\132\164\014\016
\041\115\156\200\141\106\025\300\270\317\055\111\022\122\134\212
\072\314\324\056\070\005\336\065\375\037\157\270\200\150\230\075
\115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\077
\043\155\032\321\052\044\031\331\205\263\027\357\170\156\251\113
\321\043\323\307\023\355\162\045\177\135\261\163\160\320\177\006
\227\011\204\051\1200\141\035\372\136\377\163\254\240\343\211\270
\034\161\025\306\336\061\117\022\334\341\115\233\257\347\350\023
\165\170\114\253\106\073\232\162\277\005\030\135\115\025\074\026
\232\203\112\004\232\262\232\157\145\213\122\137\074\130\004\050
\045\303\146\141\061\170\170\340\165\271\032\250\201\132\162\027
\263\305\003\061\065\021\170\170\242\340\351\060\214\177\200\337
\103\337\074\272\047\226\342\200\064\155\343\230\032\144\047\254
\110\176\050\167\134\306\045\141\145\370\205\014\145\372\034\046
\057\245\230\005\344\370\013\147\026\260\263\060\202\270\006\203\131
\371\271\171\334\037\315\353\257\253\016\335\033\333\105\344\172
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\103\136
\125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\211
\266\310\152\270\060\310\152\070\033\156\236\341\067\026\352\005
\142\121\113\302\210\075\355\247\264\263\130\260\307\111\363\177\022
\150\011\066\111\161\360\155\370\116\107\337\326\205\356\305\100
\031\244\035\247\371\113\103\067\334\150\132\167\173\175\302\144
\164\336\264\029\333\136\124\124\032\057\034\327\227\161\124\220
\216\331\040\235\123\053\177\253\217\343\232\520\060\274\120\067\357
\136\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\343\374\134\153\220\335\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\135\273

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\035\32
\155\115\105\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\100\003\125\004\006\023\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\105\206\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\101\050\125\174\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust Root Certification Authority - G2"
#
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\050\125\174\000\000
\000\002
END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".,C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
END

CKA_ISSUER MULTILINE_OCTAL
END

CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
# Certificate "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

END
```
\362\002\305\237\240\366\133\325\213\006\031\206\117\123\020\155
\007\044\047\241\124\037\325\107\031\141\114\175\312\223\047\352
\164\014\357\157\226\011\137\64\135\160\135\066\255\147\167\256
\311\235\174\125\104\072\242\143\121\037\365\134\142\324\251\107
\007\076\134\040\243\102\060\100\060\016\006\031\125\035\017\001
\001\137\004\000\030\020\010\060\060\017\006\003\125\035\023\001
\001\137\000\05\060\003\000\001\137\70\060\350\060\350\016
\004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244
\340\012\011\014\50\021\102\111\060\012\006\010\052\206\011\031
\075\004\003\003\003\147\000\060\144\002\206\014\171\133\034\102
\107\337\034\256\123\231\027\266\157\034\175\341\277\021\224\321
\003\210\165\344\215\211\244\212\167\106\336\155\141\357\002\365
\373\265\337\314\376\116\377\376\251\346\247\000\206\133\231\327
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\372\247
\216\046\010\350\174\222\150\155\163\330\157\046\254\041\002\270
\231\267\046\101\133\045\140\256\320\110\032\356\006
END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERT SHA1 HASH MULTILINE OCTAL
\040\330\006\100\033\73\233\045\365\022\045\072\021\352\237\131\212
\353\024\265\107
END

CKA CERT MD5 HASH MULTILINE OCTAL
\266\176\035\360\130\035\111\154\044\073\075\355\230\030\355\274
END

CKA_ISSUER MULTILINE OCTAL
\060\020\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\015\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
```
 Certificate "CFCA EV ROOT"

 Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
 Serial Number: 407555286 (0x184accd6)
 Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
 Not Valid Before: Wed Aug 08 03:07:01 2012
 Not Valid After: Mon Dec 31 03:07:01 2029

 Fingerprints:

 This certificate is trusted by the NSS trusted delegate CKT_NSS_TRUSTED_DELEGATOR.

 This certificate is trusted by the NSS trusted delegate CKT_NSS_TRUSTED_DELEGATOR.

 This certificate is trusted by the NSS trusted delegate CKT_NSS_MUST_VERIFY_TRUST.

 This certificate is trusted by the NSS trusted delegate CKT_NSS_MUST_VERIFY_TRUST.

 This certificate's step-up approval status is CK_FALSE.
# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0 10275
# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):
# Certificate "SZAFIR ROOT CA"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After: Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL
# Trust for "SZAFIR ROOT CA2"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After: Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317\316\263\077\336
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END

CKA_ISSUER MULTILINE_OCTAL
\060\121\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\060\003\125\004\012\014\037\113\162\141\152\157\167
\141\140\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040
\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Network CA 2"
#
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\147\151\145\163\040
\123\056\101\050\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\163\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\147\151\145\163\040
\123\056\101\050\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\163\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\125\351
END
CKA_VALUE MULTILINE_OCTAL
Open Source Used In Crosswork Common EMS Services 4.0.0 10282
# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Certificate "Hellenic Academic and Research Institutions RootCA 2015"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\010\040\010\02\006\003\125\004\012\023\073\101\145\154\154
\145\156\151\143\040\10\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\11\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\10\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\11\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\010\040\010\02\006\003\125\004\012\023\073\101\145\154\154
\145\156\151\143\040\10\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\11\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\10\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\11\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\010\040\010\02\006\003\125\004\012\023\073\101\145\154\154
\145\156\151\143\040\10\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\11\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\10\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\11\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
Open Source Used In Crosswork Common EMS Services 4.0.0 10289

Research Institutions Cert. Authority,L=Athens,C=GR

# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After: Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\252\061\013\060\001\11\006\003\1125\004\006\023\002\107\122
\061\017\060\015\006\003\1125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\1125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\140\111\156\163\164\151
\164\165\161\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\1125\004\003
\023\073\110\145\154\154\151\143\040\111\143\141\144\145
\155\151\143\040\111\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\141\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\104\062\060\061\065

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\001\11\006\003\1125\004\006\023\002\107\122
\061\017\060\015\006\003\1125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\1125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\140\111\156\163\164\151
\164\165\161\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\1125\004\003
\023\073\110\145\154\154\151\143\040\111\143\141\144\145
\155\151\143\040\111\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\141\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\104\062\060\061\065

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\201\252\061\013\060\001\11\006\003\1125\004\006\023\002\107\122
\061\017\060\015\006\003\1125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\1125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\140\111\156\163\164\151
\164\165\161\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\1125\004\003
\023\073\110\145\154\154\151\143\040\111\143\141\144\145
\155\151\143\040\111\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\141\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\104\062\060\061\065

END
END

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
Open Source Used in Crosswalk Common EMS Services 4.0.0  10291

# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150\013\272\266\146 END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357 END

CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\101\306\000\111\006\003\125\004\006\023\002\107\122 \061\170\060\150\066\003\125\004\007\023\006\101\164\150\145\156 \163\061\104\060\012\006\003\125\004\120\023\073\110\145\154\154 \145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156 \144\040\122\145\163\145\141\162\143\150\040\111\165\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165 \164\150\157\162\151\164\171\061\040\060\012\006\003\125\004\003 \023\073\110\145\154\154\145\156\151\143\040\101\143\141\144\145 \155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150 \040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103 \103\040\122\157\157\164\103\101\040\062\060\061\065 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Serial Number:00:82:10:cf:b0:d2:40:e3:59:44:e0:bb:63:82:8b:00
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\135\045\066\065\313\003\323\176\142\332\336\030\047
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\034\032\027\163\351\355\206\115\245\160\347\0116
# Certificate "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

cka_class ck_object_class cko_nss_trust
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "AC RAIZ FNMT-RCM"
cka_cert_sha1_hash multiline_octal
\354\120\065\007\262\025\304\225\142\031\342\250\133\054\014\054\040
end
cka_cert_md5_hash multiline_octal
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
end
ccka_issuer multiline_octal
\060\073\061\013\060\001\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
end
ccka_serial_number multiline_octal
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
end
ccka_trust_server_auth ck_trust ckt_nss_trusted_delegator
ccka_trust_email_protection ck_trust ckt_nss_must_verify_trust
ccka_trust_code_signing ck_trust ckt_nss_must_verify_trust
ccka_trust_step_up_approved ck_bbool ck_false

#
# Certificate "Amazon Root CA 1"
#
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
Open Source Used In Crosswork Common EMS Services 4.0.0 10299
[Previously extracted text]

```
\070\007\334\242\242\207\071\130\370\272\325\251\371\110\147\060\226
\356\224\170\136\157\211\243\121\300\060\206\146\241\105\146\272
\124\353\243\303\221\371\11\303\347\377\32\135\060\055\175\055\164
\160\065\327\210\044\367\236\304\131\156\273\16\20\072\23\62\062
\106\050\270\103\372\267\035\252\312\264\362\237\044\160\055\113
\367\11\341\365\157\377\352\22\205\023\130\072\21\256\12\070\157
\333\373\305\142\033\305\307\036\124\341\167\34\101\17\234
\207\043\32\077\100\040\177\040\200\340\011\140\076\073\044\046
\121\004\256\154\232\310\252\015\02\03\01\000\001\243\102\060
\100\060\017\006\003\125\035\023\01\001\137\000\040\050\060\003\001
\001\377\060\016\000\063\125\035\017\001\001\137\000\040\004\003\002
\001\12\060\003\050\060\003\125\035\016\004\026\004\024\204\030\314
\205\064\354\247\04\014\22\22\24\056\010\131\23\030\72\26\020\116\012
\10\10\006\015\006\011\052\206\11\206\367\015\001\011\013\005\000
\03\02\002\001\000\000\23\036\206\71\132\11\22\24\103\32\305\166\121
\050\040\066\043\016\256\346\050\027\323\25\237\202\224\25\110\244\060
\177\033\374\044\215\113\264\310\241\22\237\366\266\361\172\160\310
\123\223\310\40\050\343\230\045\317\043\244\371\136\044\132\317
\20\011\255\116\23\165\072\302\013\152\211\170\166\104\107\030
\1451\1542\151\012\160\073\177\232\313\364\265\247\120\327\005\054
\067\350\03\11\255\354\11\11\240\002\15\365\362\360\035\262\335
\133\267\334\372\224\134\167\236\023\245\177\12\255\225\232\370
\223\030\336\213\134\331\312\322\121\331\140\257\024\367\113\357
\243\373\237\100\225\155\061\12\374\102\323\307\106\037\043\255
\331\017\11\016\232\311\165\170\163\212\162\103\064\165\156\127
\131\030\020\123\046\164\051\317\043\031\026\216\210\103\245\324
\343\13\010\373\034\021\103\350\103\305\116\142\241\251\135\136
\10\03\42\220\256\270\330\160\243\032\320\125\362\206\366\034\223
\10\316\146\141\300\271\350\101\327\227\170\140\003\156\112\162
\256\245\332\117\59\272\020\236\206\154\033\212\271\131\063\370\353
\304\220\276\361\271
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “Amazon Root CA 1”
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
  \060\071\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
  \017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
  \061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
  \156\040\122\157\157\164\040\103\101\040\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
  \002\023\006\154\237\317\231\277\214\012\071\134\236\017\021\103
  \346\226\066\133\312
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 1"

# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Serial Number:
# Subject:
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
  \215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
  \152\156\336\026
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
  \103\306\277\256\354\376\255\057\030\306\210\150\060\037\4\310\346
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2, O=Amazon, C=US
# Subject: CN=Amazon Root CA 2, O=Amazon, C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\104\226\265\170
\317\107\113\032

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\157\156\040\122\157\157\164\040\103\101\040\062

END

# Certificate "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3, O=Amazon, C=US
# Subject: CN=Amazon Root CA 3, O=Amazon, C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

END

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END
# Certificate "Amazon Root CA 4"

# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\n\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\n\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157\n\156\040\122\157\157\164\040\103\101\040\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\n\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\n\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157\n\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173\n\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\020\001\362\206\020\202\001\170\240\003\110\011\001\002\002\023\006
\154\237\327\123\020\114\051\103\345\161\173\173\173\054\310\032
\301\016\060\012\006\010\052\206\110\316\075\004\003\300\160\071
\016\013\060\011\106\003\125\004\006\023\002\125\123\061\170\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\016\031
\060\027\060\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\064\060\036\027\015\061\056\060
\065\062\060\060\060\060\060\060\060\132\027\015\064\060\060\065
\062\060\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\170\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\016\031\060\027\060\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
Certificate "LuxTrust Global Root 2"

Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
Not Valid After: Mon Mar 05 13:21:57 2035

[Certificate Details]
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "LuxTrust Global Root 2"
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After : Mon Mar 05 13:21:57 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\016\126\031\012\321\213\045\230\262\004\104\377\146\212\004\027\231\137\077
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\262\341\011\000\141\257\367\361\221\157\304\255\215\136\073\174
END

CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\012\176\246\337\113\104\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

END
\%50\%33\%1162\%253\%005\%040\%02\%045\%251\%113\%003\%152\%0040\%020\%314\%061
\%360\%53\%332\%065\%054\%32\%373\%232\%227\%163\%60\%202\%113\%053\%330\%137
\%066\%243\%010\%058\%257\%143\%015\%035\%045\%177\%241\%156\%134\%142\%241\%125
\%050\%076\%241\%137\%043\%040\%370\%001\%057\%272\%125\%232\%021\%260\%031\%132
\%310\%120\%171\%153\%016\%152\%005\%327\%252\%004\%066\%262\%243\%362\%341\%137
\%167\%247\%167\%234\%345\%036\%334\%345\%137\%337\%152\%301\%145\%135\%002\%03001
\%000\%001\%124\%110\%02\%060\%100\%060\%016\%060\%031\%125\%035\%017\%001\%001\%1377
\%004\%004\%030\%002\%001\%006\%060\%017\%006\%003\%125\%035\%023\%001\%001\%1377
\%004\%005\%060\%003\%001\%001\%1377\%070\%006\%035\%060\%031\%125\%035\%160\%040\%26
\%004\%024\%207\%140\%040\%225\%310\%123\%1\%32\%1\%32\%200\%006\%112\%220\%064
\%104\%337\%034\%115\%277\%260\%060\%015\%060\%011\%052\%206\%110\%206\%367\%015
\%001\%101\%130\%050\%000\%003\%202\%001\%011\%000\%201\%216\%262\%245\%146\%026
\%267\%041\%245\%266\%357\%157\%043\%132\%137\%333\%201\%305\%012\%245\%170\%301
\%151\%375\%364\%074\%327\%371\%134\%153\%160\%162\%032\%374\%132\%227\%115\%000
\%200\%210\%210\%202\%212\%303\%161\%015\%216\%305\%211\%233\%054\%355\%215\%013
\%322\%162\%124\%365\%175\%324\%134\%103\%127\%351\%163\%256\%245\%002\%201\%366
\%166\%053\%201\%127\%335\%175\%332\%164\%060\%375\%214\%107\%366\%340\%026\%156
\%246\%264\%012\%110\%346\%347\%165\%007\%017\%051\%031\%071\%136\%171\%364\%266
\%154\%305\%137\%231\%125\%037\%113\%372\%337\%155\%054\%074\%015\%124\%200\%160
\%360\%210\%013\%200\%317\%061\%052\%242\%270\%035\%160\%331\%166\%214\%374\%356
\%245\%311\%317\%255\%035\%317\%231\%045\%127\%132\%142\%053\%130\%262\%153\%327
\%111\%315\%245\%243\%214\%151\%171\%045\%256\%270\%114\%154\%213\%100\%146\%113
\%026\%077\%317\%002\%033\%335\%341\%154\%153\%007\%141\%152\%166\%025\%051\%231
\%177\%033\%335\%210\%020\%311\%277\%265\%217\%163\%305\%246\%226\%043\%204\%246
\%050\%206\%040\%063\%152\%001\%056\%127\%163\%045\%266\%136\%277\%217\%346\%035
\%141\%250\%100\%051\%147\%035\%207\%233\%035\%17\%233\%237\%231\%135\%061\%132
\%124\%276\%142\%273\%071\%254\%150\%022\%110\%221\%040\%245\%313\%261\%335\%376
\%157\%374\%132\%344\%202\%125\%131\%257\%061\%251
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "Symantec Class 1 Public Primary Certification Authority - G4"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 1 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

"Symantec Class 1 Public Primary Certification Authority - G4"
# Certificate "Symantec Class 2 Public Primary Certification Authority - G4"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038

# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\345\200\077\125\171\155\141\156\164\145\143\040\03\171\155\141\156\061\103\006\003\125\004\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\03\171\155\141\156\061\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143\040\012\162\165\163\164\040\116\145\164\167\157\162\153\061\105\060\010\003\006\003\125\004\030\023\074\123\171\155\141\156\164\145\143\040\03\154\141\163\163\040\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\104\03\145\162\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157\162\151\164\171\040\055\040\107\064

# CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\03\171\155\141\156\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\145\143\040\12\162\165\163\164\040\116\145\164\167\157\162\153\061\105\060\010\003\006\003\125\004\030\023\074\123\171\155\141\156\164\145\143\040\03\154\141\163\163\040\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\104\03\145\162\164\151

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\156\063\245\313\323\210\244\157\051\007\264\047\074

# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G4"

# CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\004\345\200\077\125\171\155\141\156\164\145\143\040\03\171\155\141\156\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\145\143\040\12\162\165\163\164\040\116\145\164\167\157\162\153\061\105\060\010\003\006\003\125\004\030\023\074\123\171\155\141\156\164\145\143\040\03\154\141\163\163\040\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\104\03\145\162\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157\162\151\164\171\040\055\040\107\064

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\03\171\155\141\156\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\145\143\040\12\162\165\163\164\040\116\145\164\167\157\162\153\061\105\060\010\003\006\003\125\004\030\023\074\123\171\155\141\156\164\145\143\040\03\154\141\163\163\040\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\104\03\145\162\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157\162\151\164\171\040\055\040\107\064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\156\063\245\313\323\210\244\157\051\007\264\047\074

#
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END
```
\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\040\100\055\040\107\064\060\166\060\020\006\007\052
\206\103\136\160\020\010\060\065\053\201\004\000\042\003\142\000
\004\321\133\111\121\161\114\015\204\112\121\172\174\357\323\314\372
\072\232\262\524\143\023\075\011\340\111\076\372\301\107\331\122
\263\072\327\376\157\234\367\232\072\017\365\016\012\012\303\077
\310\347\022\024\216\325\325\155\230\054\263\161\062\012\353\052
\275\366\327\152\040\131\147\105\234\322\262\277\123\042\146\011
\135\333\021\363\361\005\063\130\243\342\270\317\174\315\202\233
\275\243\102\060\100\060\016\060\063\125\035\171\001\100\137\77004
\100\403\002\001\006\060\017\006\060\125\035\023\001\001\137\77004
\100\506\000\03\001\001\137\77006\035\060\033\125\035\016\004\026\004
\024\075\062\363\072\251\014\220\204\371\242\214\151\006\141\124
\057\207\162\376\005\060\012\006\010\052\206\110\316\075\004\003
\003\003\151\000\060\146\002\061\000\310\246\251\257\110\177\265
\311\021\102\020\261\051\111\14\134\270\047\300\266\230\361\030\177
\220\155\207\323\213\146\027\360\076\117\374\352\260\001\030\4172
\113\274\010\057\307\342\247\157\145\002\061\000\320\131\336\206
\316\137\016\312\124\325\306\320\025\016\374\213\224\162\324\216
\000\130\123\317\176\261\113\015\345\120\206\353\236\153\337\377
\051\246\330\107\333\240\204\026\030\333\362\105\263
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 2 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\044\220\056\110\001\126\004\022\226\100\002\106\264\261\147\054
\251\165\375\053

CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

# Certificate "D-TRUST Root CA 3 2013"

# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_SUBJECT MULTILINE_OCTAL
CKA_SUBJECT UTF8 "CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE"
CKA_SUBJECT CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
CKA_ID UTF8 "0"

# Certificate "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_SUBJECT MULTILINE_OCTAL
CKA_SUBJECT UTF8 "CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE"
CKA_ID UTF8 "0"
"160\202\160\156\154\144\141\160\072\057\057\144\15\162\145\143\164
\157\162\171\166\144\055\164\162\165\163\164\056\156\145\164\057
\103\116\075\104\055\124\125\123\124\045\062\060\122\157\157
\164\045\062\060\103\101\045\062\060\053\045\062\060\053\060\061
\063\054\117\075\104\055\124\162\165\163\164\045\062\060\107\155
\142\110\054\103\075\104\105\077\143\145\161\162\145\143
\141\164\156\162\145\166\157\143\111\164\151\157\156\154\151\163
\164\060\073\240\071\240\067\206\065\150\164\164\160\072\057\057
\143\162\154\056\144\055\164\162\165\163\164\056\156\145\164\057
\143\162\154\057\144\055\164\162\165\163\164\137\162\157\157\164
\137\143\141\137\063\137\062\060\106\063\056\143\162\154\060\015
\006\011\052\206\110\206\367\015\001\001\013\005\000\003\202\001
\001\000\016\131\016\130\344\164\110\043\104\317\064\041\265\234
\024\032\255\232\113\267\263\210\155\134\251\027\160\360\052\237
\215\173\371\173\205\372\307\013\350\202\010\260\065\053\137\317
\002\322\323\234\310\013\036\356\005\124\256\067\223\004\011\175
\154\217\302\164\274\370\034\222\276\061\001\000\055\363\044\040
\267\024\125\054\134\310\365\164\112\020\031\123\243\307\355\065
\326\011\110\323\016\300\272\071\250\260\106\002\260\0333\306\210
\131\132\276\374\173\261\053\171\176\142\207\125\226\140\011\157
\233\147\042\1125\226\065\213\370\020\374\161\033\267\113\067\151\124
\073\326\354\213\356\301\260\363\045\311\217\222\175\241\352\303
\312\104\277\040\245\164\222\234\343\164\353\235\164\333\133\115
\207\330\374\264\151\154\213\240\103\007\140\170\227\351\331\223
\174\302\106\247\233\067\122\224\335\212\074\023\251\173\123\113
\111\232\021\000\054\013\156\126\254\037\056\202\154\340\151\147
\265\016\155\053\333\134\300\025\361\077\372\030\162\334\102\051\155
\047\133\055\060\050\053\237\110\232\144\053\231\357\362\165\111
\137\131
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTURST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTURST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0x0fddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After: Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"

Open Source Used In Crosswork Common EMS Services 4.0.0 10327
# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 0x1
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
# Certificate Type CK_CERTIFICATE
# Class CK OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Certificate Type CK CERTIFICATE TYPE CKC_X_509
# Subject MULTILINE_OCTAL
06006000325000400702301710711451421721445
0005504001131157143141145154151106102060100006003
12500401202307124165162153151117145040102151154
1511155116314515404001661450401204451531561571541157
1521511530401011621411163164151162155141040113165

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\174\314\347\324\121\137\231\010\315\077\366\350\303\170
\337\157\357\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\042\146\230\176\326\003\340\301\161\346\165\126\105\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\322\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\115\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\120\230\71\124\165\162\153\151\171\145\140\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165

Open Source Used In Crosswork Common EMS Services 4.0.0 10328
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L= Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L= Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\062\063\064\065\066\067\070\071\072\073\074\075\076\077\010\011\012\013\014\015\016\017\018\019\020\021\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\062\063\064\065\066\067\070\071\072\073\074\075\076\077\010\011\012\013\014\015\016\017\018\019\020\021\022
END
CKA_ISSUER MULTILINE_OCTAL
\061\062\063\064\065\066\067\070\071\072\073\074\075\076\077\010\011\012\013\014\015\016\017\018\019\020\021\022
END

Open Source Used in Crosswork Common EMS Services 4.0.0 10331
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GDCA TrustAUTH R5 ROOT"
#
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\000\03\125\004\012\104\05\107\125\101\116\070\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\060\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\000\03\125\004\012\104\05\107\125\101\116\070\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After: Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\066\011\103\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\040\056\061\037\060\035\006\003\125\004\003\14\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\127\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor RootCert CA-1"
#
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.=Panama City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After: Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\163\003\260\031
END
CKA_VALUE MULTILINE_OCTAL
\060\020\124\040\061\013\060\001\11\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL NUMBER MULTILINE_OCTAL
\002\020\100\0332\233\354\161\163\003\260\031
END
CKA_VALUE MULTILINE_OCTAL
\060\020\004\060\060\020\003\030\240\003\002\001\002\002\011\000
\332\233\354\161\163\003\260\031\060\015\006\011\052\020\010\0206
\367\015\001\001\013\005\000\060\020\124\061\013\060\001\11\006\003
\125\004\006\023\002\120\010\061\017\060\015\006\003\125\004\010
\014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004

Open Source Used in Crosswork Common EMS Services 4.0.0 10336
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\101\157\225\053\044\241\171\230\072\070\066\373\273\146\236\110
\377\220\220\057\075\324\247\233\264\207\165\077\040\233\316\162
\317\241\125\031\115\144\242\031\006\241\007\063\014\013\051\345
\361\135\253\243\354\265\012\164\220\070\171\516\236\132\134\023
\221\135\271\123\267\133\345\146\242\317\216\146\073\274\237\072
\002\340\047\335\026\230\300\225\324\012\244\344\201\232\165
\222\234\220\137\210\067\006\255\131\125\122\012\260\321\147\323\031
\312\121\134\067\213\320\066\034\076\02\250\132\223\276\306\02\014
\221\126\317\331\266\030\017\333\176\322\145\243\246\034\2160\227
\061\130\137\176\166\333\323\205\343\130\262\167\172\166\073\154
\057\120\034\347\333\366\147\171\037\365\202\225\232\007\247\024
\257\217\333\050\041\147\011\322\326\115\132\034\031\034\236\106
\134\030\224\044\075\056\215\113\176\324\170\224\023\276\067\115
\316\137\030\036\160\074\340\211\063\225\013\017\245\062\326\074
\132\171\054\031
END

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "TrustCor RootCert CA-2"

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
END
\242\341\370\030\013\272\105\325\307\101\052\273\067\122\105\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\103\060\011\006\003\125\004\006\023\002\120\101
\061\107\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "TrustCor ECA-1"
#
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\234\061\103\060\011\006\003\125\004\006\023\002\120\101
\061\107\060\15\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\162\164\040\103\101\055\062
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:65:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204\013\310\170\275
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101\061\177\060\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\050\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145\162\164\151\114\143\141\164\145\040\101\165\164\145\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com Root Certification Authority RSA"
#
# Issuer: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US
# Subject: CN=SSL.com Root Certification Authority RSA, O=SSL Corporation, L=Houston, ST=Texas, C=US
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\000\07\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\113\140\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\000\07\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\113\140\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\173\054\233\262\060\062\231
END
CKA_VALUE MULTILINE_OCTAL
\060\202\335\060\202\003\030\240\003\02\001\002\002\010\173
\054\233\323\232\206\200\231\200\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\174\061\103\060\011\006\003\125\004
\006\023\002\125\123\060\101\160\014\006\003\125\004\010\140\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007
\110\157\165\163\164\157\156\061\030\060\026\060\003\125\004\012
\014\171\123\113\140\013\157\162\161\016\156\164\151\157\156
\156\061\061\060\057\003\125\004\003\014\050\123\123\114\056
\143\157\155\040\122\157\157\157\164\151\156\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\122\123\101\060\036\027\015\061\060\060\062\061\062\061\067
\063\071\063\071\132\027\015\064\061\060\062\061\062\061\067\063
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251
\066\111\014\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\354\254\254\302\325\274\245\133\241\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\012\123\114\056\143\157\155\040\122\157
\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com Root Certification Authority ECC"
#
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CKCERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\103\060\026\006\003\125\004\012\014\017\123\123\114\140\140
\103\157\162\161\157\162\141\164\151\157\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\157\162\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\013\103
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\103\060\026\006\003\125\004\012\014\017\123\123\114\140\140
\103\157\162\161\157\162\141\164\151\157\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\157\162\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\013\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\215\060\020\024\240\003\002\001\002\002\010\165
\346\337\313\301\150\133\250\060\174\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\103\060\026\006\003\125\004\012\014\017\123\123\114\140\140
\103\157\162\161\157\162\141\164\151\157\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\157\162\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\013\103
END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\034\253\040\225\172\342\303\016\023\002\152
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
% Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042

CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8  "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509
CKA_SUBJECT  MULTILINE_OCTAL
%060%020%012%061%013%060%011%100%006%003%125%004%006%023%002%125%123
%061%016%060%014%006%003%125%004%010%014%015%141%146%151%143%141%164%151%157%156%150%015%061%060%057%006
%003%125%004%003%014%050%123%114%056%143%157%155%040%122%157%157%164%040%103%145%162%164%151%146%151%143%141%164%151%157%156%140%101%165%164%150%157%162%151%164%171%040%105%103%103
END
CKA_ID  UTF8  "0"
CKA_ISSUER  MULTILINE_OCTAL
%060%201%202%061%013%060%011%100%006%003%125%004%006%023%002%125%123
%061%016%060%014%006%003%125%004%010%014%005%124%145%170%141%163

END

CKA_SERIAL_NUMBER  MULTILINE_OCTAL
%020%010%165%346%337%313%301%150%133%250
END

CKA_TRUST_SERVER_AUTH  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  CK_FALSE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

END

CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\023\315\324\272\251\173
\174\056\304\232

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\106\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\102\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\016\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\103\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
# Certificate "SSL.com EV Root Certification Authority ECC"

# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\131\060\111\006\003\026\002\125\123\061\016\060\014\006\003\026\002\125\123\061\020\060\016\006\003\026\002\125\123\061\015\060\013\030\060\002\26\006\003\026\002\125\123\061\010\015\162\160\157\162\141\164\151\157\156\061\006\002\06\006\003\026\002\125\123\061\003\25\004\003\014\053\026\002\120\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006\003\25\004\003\014\053\026\002\120\014\017\123\123\114\040\103

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\131\060\111\006\003\026\002\125\123\061\016\060\014\006\003\026\002\125\123\061\020\060\016\006\003\026\002\125\123\061\015\060\013\030\060\002\26\006\003\026\002\125\123\061\010\015\162\160\157\162\141\164\151\157\156\061\006\002\06\006\003\026\002\125\123\061\003\25\004\003\014\053\026\002\120\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006\003\25\004\003\014\053\026\002\120\014\017\123\123\114\040\103

END
# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After: Sun Dec 10 00:00:00 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\303\205\145\110\346\377\105\121
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\016\105
\346\273\003\203\063\303\205\145\110\346\377\105\121\060\015\006
\011\052\206\110\206\367\015\001\001\014\005\000\060\114\061\040
\060\036\006\003\125\004\013\023\027\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
\372\330\007\063\166\124\000\004\220\052\271\115\040\005\160\150\332
\345\123\374\203\134\323\235\362\377\104\141\104\146\362\322\343
\275\106\000\032\155\002\227\204\155\135\215\241\016\121\335\124\106
\034\151\333\231\226\357\032\034\004\134\246\125\357\170\340\171
\376\135\333\076\252\114\125\375\232\025\251\157\341\246\373\337
\160\060\351\133\356\102\106\355\302\223\005\21\137\217\153\143\173
\077\320\161\201\174\000\350\230\256\016\170\064\303\045\373\257
\012\237\040\153\335\073\032\17\022\21\134\321\101\032\11\172\163
\240\167\151\307\266\134\177\202\310\036\376\130\033\050\053\3250
\154\255\136\153\000\005\322\173\267\353\020\376\045\067\376\002
\233\150\254\012\135\303\335\365\363\141\334\360\120\163\322\066\151
\234\346\173\004\337\156\006\151\126\336\360\120\111\101\131\027\353
\173\024\140\172\144\252\151\010\335\72\130\114\354\030\335\154
\357\123\055\214\231\341\136\362\162\076\317\124\310\275\147\354
\244\017\11\141\053\77\323\227\106\004\307\114\2\70\277\206\226
\331\123\113\264\231\127\342\244\314\273\025\21\11\23\272\054\005
\017\344\304\236\031\261\030\064\325\114\253\272\355\367\073\257
\044\252\004\170\250\003\323\73\356\201\345\332\137\174\213\11\241
\220\164\045\247\263\076\113\311\054\126\275\307\130\357\070\342
\134\222\360\171\136\723\404\272\164\055\141\001\040\176\176\321
\362\170\007\131\137\213\055\103\122\353\106\014\22\341\365\146
\107\171\167\325\124\133\037\255\044\067\313\105\132\116\240\104
\110\330\320\263\021\305\025\204\011\136\326\111\111\300\145\270
\346\032\161\156\240\250\361\120\350\100\076\154\326\002\327\012
\147\203\005\132\311\244\020
END

CKA_NSS_MOZZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-C256):

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256 END
CKA_ISSUER MULTILINE_OCTAL
\060\141\060\040\060\036\006\003\125\004\013\023\027\107\154\157 \
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\010\040 \
\055\040\122\060\061\023\060\021\006\003\125\004\012\023\012\107 \
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125 \
\004\003\023\012\107\154\157\142\141\154\123\151\147\156 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\203\063\030\205\145\110\346\377\105\121 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "OISTE WISEKey Global Root GC CA"
#
# Issuer: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed, O=WISEKey, C=CH
# Subject: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed, O=WISEKey, C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISEKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061 END

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# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_PPVCKB.isFile CK_TRUE
CKA_PPVCKB.isNotFile CK_FALSE
CKA_PPVCKB.isUnreadable CK_FALSE
CKA_PPVCKB.isReadable CK_TRUE
CKA_PPVCKB.isWriteable CK_FALSE
CKA_PPVCKB.isExecutable CK_FALSE
CKA_PPVCKB.isExecutableOnAll ck_FALSE
CKA_PPVCKB.isExecutableOnOwner ck_TRUE
CKA_PPVCKB.isExecutableOnGroup ck_FALSE
CKA_PPVCKB.isExecutableOnOthers ck_FALSE

# Certificate "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_VALUE MULTILINE_OCTAL
END
CKA_SUBJECT_MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
END
CKA_VALUE_MULTILINE_OCTAL
END
\025\356\327\134\126\152\063\245\343\111\070\014\270\175\373\215
\020\52\44\26\11\131\136\364\152\341\133\254\036\256\346\121
\203\041\146\306\021\107\63\33\161\073\56\234\050\037\045\332\377
\254\160\225\355\065\017\134\357\040\054\042\352\221\272\251\314
\374\132\234\223\201\023\035\112\174\131\162\264\071\320\267
\167\31\171\137\55\110\222\206\073\55\156\070\014\270\176\351\140
\275\171\210\227\137\070\022\364\356\257\133\202\310\066\325\341
\231\155\214\004\346\166\262\111\136\65\351\155\036\137\240\357
\047\202\166\10\370\246\323\130\131\070\154\102\332\102\230\017
\210\064\307\031\105\233\301\107\63\351\141\035\33\143\120\111
\366\064\205\152\340\030\035\156\107\253\101\102\051\233\366\140
\015\322\061\132\143\230\043\223\132\000\201\110\264\357\315\212
\315\31\313\172\313\356\331\136\252\066\341\150\113\161\111\024\066
\050\072\075\035\316\232\217\045\346\200\161\141\053\265\173\314
\371\045\026\201\341\106\113\241\214\231\176\026\244\234\026\152\227
\030\275\166\162\245\013\236\035\066\346\057\241\057\276\160\221
\017\250\346\332\237\030\043\222\100\154\045\176\173\263\011\343\262
\027\255\200\104\360\150\245\172\224\165\377\164\132\350\250\002
\174\014\011\342\251\113\013\240\205\013\142\271\137\241\061\222
\373\357\366\121\004\211\154\350\251\164\241\214\273\027\263\265\357
\111\17\174\07\354\203\030\040\103\116\325\223\272\264\064\261
\037\026\066\037\014\346\144\071\206\114\333\340\376\035\310\251
\142\075\100\352\312\305\064\002\264\256\211\210\063\065\334\054
\023\163\330\047\361\132\162\356\165\073\042\336\230\150\146\133
\361\306\143\107\125\034\272\245\010\121\165\246\110\045
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\341\311\120\346\037\042\370\114\126\105\162\213\222\040\140\327
\325\247\243\350
END
Open Source Used in Crosswork Common EMS Services 4.0.0 10369

# Certificate "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\032\357\324\322\112\362\075\227\006\024\160\162\205
END

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\072\051\305\107\014\015\354\063\320\271\034
\364\341
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

# Certificate "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\130\154\251\163\044\100\121\101\003\125\335
\125\035
END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\014\060\020\001\122\124\000\030\002\001\002\002\020\156
\107\251\130\154\251\163\044\100\021\113\003\125\335\125\035\060
\012\006\101\005\206\110\316\075\004\003\003\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\147\154\145\140\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\140\040\122\163\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\012\027\015\063\066\060\066\062\062\060\060
\060\060\060\060\012\026\010\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\103\061\024\060\022\006\003\125\004\003
\023\013\107\124\123\040\122\157\157
END
\101\125\156\053\352\046\177\273\220\001\343\113\031\127\234\124
\226\105\011\261\325\154\222\110\144\255\204\023\162\232\221\140\152
\014\062\346\040\047\224\102\060\010\006\000\125\035\017
\001\001\137\77\040\004\003\000\201\006\060\010\006\000\125\035\023
\001\001\137\77\004\000\056\000\031\001\137\177\060\035\006\003\125\035
\161\004\026\060\040\024\301\136\104\062\272\240\055\256\205\201\137\323
\361\052\022\275\270\012\147\375\274\060\012\060\010\005\206\110
\316\075\004\003\000\031\151\000\060\146\026\061\000\020\133\244
\174\043\030\022\254\054\043\324\276\211\157\043\271\243\335\145\000
\122\136\221\125\310\023\162\164\202\123\013\175\251\100\275\150
\140\305\341\270\124\073\301\066\027\045\330\301\127\25\206\010\000
\236\065\222\164\205\045\121\365\044\354\144\122\044\120\245\037
\333\350\313\111\166\354\354\020\156\365\205\030\123\350\270\343
\232\051\252\226\323\203\043\311\244\173\141\263\314\002\350\135
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\324\044\157\007\377\333\221\211\212\013\351\111\146\021\135
\214\136\106\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\032\217\113\153\004\122\234\135\307\164\063\033\045\232\371\045
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CLASS_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
\164\040\122\064\060\036\027\015\061\066\060\066\062\062\060\060
\060\060\060\060\013\020\027\015\063\060\060\066\062\062\060\060
\060\060\060\060\132\060\107\061\013\060\011\006\003\125\004\006\023
\002\125\123\061\042\060\040\006\003\125\004\012\023\031\107\157
\157\147\154\145\040\124\162\165\163\164\040\123\145\162\166\151
\143\145\163\040\114\114\036\024\006\003\125\004\003
\023\013\107\124\123\040\122\157\157\164\040\122\064\060\166\160
\020\006\007\052\206\110\031\167\075\002\001\006\005\053\201\004\000
\042\003\142\000\004\036\164\163\247\150\213\140\256\103\270\065
\030\201\060\017\113\111\235\373\301\141\136\346\336\106\275\153
\325\141\030\065\252\61\003\335\163\367\211\122\060\132\353\074\356
\205\174\242\100\166\073\251\130\270\107\330\052\347\222\221\152
\163\351\261\162\071\123\051\137\136\130\206\145
\017\241\204\145\006\321\334\213\111\076\163\310\214\152\057\345
\304\253\321\035\212\243\102\060\100\060\016\006\003\125\035\017
\001\001\377\004\004\030\002\001\010\060\017\006\060\031\125\035\023
\001\001\377\004\005\060\003\001\001\377\060\035\006\003\125\035
\016\004\026\004\024\200\114\326\353\164\437\77\111\066\243\325\330
\374\242\076\263\051\152\130\224\035\214\060\012\006\010\052\206\110
\316\075\000\040\003\003\014\170\000\060\144\002\060\152\120\122\164
\010\304\160\033\423\61\120\164\041\350\215\172\041\303\117\226\156
\025\321\042\265\141\055\372\010\067\356\031\155\253\333\262\314
\175\007\064\365\140\031\105\265\064\331\157\040\002\060\060\031\161
\261\127\243\140\103\206\355\232\010\152\225\150\237\342\263\341
\223\144\174\136\223\246\337\171\055\215\053\343\224\317\043\135
\161\134\362\260\115\326\376\231\310\224\251\165\242\343
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "UCA Global G2 Root"

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

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# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After: Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_ISSUER MULTILINE_OCTAL
\060\061\063\060\060\061\060\060\063\125\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\355\135\276\132\145\040\145\003\122\0357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\000\033\125\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164 END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\000\033\125\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043\160\101 END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\022\003\102\240\003\002\001\002\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043\160\101 END
# Trust for "UCA Extended Validation Root"

# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN


# Not Valid Before: Fri Mar 13 00:00:00 2015

# Not Valid After: Fri Dec 31 00:00:00 2038

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

# CKA_TOKEN CK_BBOOL CK_TRUE

# CKA_PRIVATE CK_BBOOL CK_FALSE

# CKA_MODIFIABLE CK_BBOOL CK_FALSE

# CKA_LABEL UTF8 "UCA Extended Validation Root"

# CKA_CERT_SHA1_HASH MULTILINE_OCTAL

# CKA_CERT_MD5_HASH MULTILINE_OCTAL

# CKA_ISSUER MULTILINE_OCTAL

\021\060\017\006\003\125\004\012\014\010\125\151\124\162\165
\163\164\060\043\006\003\125\004\003\014\034\125\103\101
\040\010\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number:00:ca:e9:1b:89:f1:55:03:0d:03:0e:33:6a:61:1e
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\132\060\130\060\111\006\003\125\004\006\023\002\106\122\061
\022\060\002\000\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\013\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\060\130\060\111\006\003\125\004\006\023\002\106\122\061
\022\060\002\000\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\013\060\027\006\003\125\004\003\014\020\103\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\032\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
END

CKA_VALUE MULTILINE_OCTAL
\060\020\006\133\060\202\004\103\240\000\032\001\000\020\002\021\000
\312\351\033\211\361\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\367\015\001\010\13\005\000\006
\132\061\013\060\001\116\060\032\125\004\006\203\002\106\122\061\022
\060\020\006\060\321\204\012\014\011\104\150\151\155\171\157\164
\151\163\060\134\060\032\006\003\125\004\013\104\223\060\060\060
\062\024\004\070\061\064\066\063\060\070\061\060\060\060\063\066
\061\031\060\027\006\060\321\204\003\014\020\103\145\162\164\151
\147\156\141\040\122\157\157\164\040\131\106\060\036\027\150\061
\063\061\060\060\060\061\060\070\063\062\062\067\132\207\015\063\063
\061\060\060\061\060\070\063\062\062\067\132\206\013\060\013\060
\011\006\003\125\004\006\023\002\106\122\061\022\060\020\002\000
\125\004\012\014\011\104\150\151\155\171\157\164\151\163\060\013
\060\032\006\003\125\004\013\104\023\060\060\060\060\062\040\064\070
\061\016\064\066\063\060\070\061\060\060\060\063\066\061\031\060\027
\006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040
\122\157\157\164\040\103\101\060\202\020\024\060\015\060\011\052
\206\015\020\063\067\015\001\001\001\000\000\003\202\002\017\000\060
\202\002\012\020\020\020\020\010\003\15\030\071\145\032\131\126\1352
\144\026\012\164\224\044\225\174\203\323\305\071\046\334\014\357
\206\127\125\327\333\254\243\012\177\202\312\325\153\133\333\016
\267\055\355\105\101\027\262\311\263\313\326\027\122\162\205\033
\216\161\236\212\266\013\337\236\204\232\115\166\336\042\051\134
\322\263\322\006\076\060\071\251\164\243\222\126\034\241\157\114
\012\040\155\237\043\172\264\306\322\054\344\035\054\334\263\050
\320\023\362\114\160\002\111\241\124\100\023\263\346\345\005\240\055
\204\310\377\230\154\320\353\121\032\204\010\036\267\150\043\356
\043\325\160\316\155\121\151\020\356\241\172\302\321\042\061\130
\202\205\022\322\362\125\166\120\174\045\172\231\112\204\134\013\254\335
\020\16\053\347\202\242\044\111\131\220\262\320\356\043\272\146
\114\273\142\244\347\171\123\132\144\173\174\230\372\243\110\236\017
\225\256\247\030\064\152\354\056\031\052\257\360\164\370\052\231
\172\135\321\276\104\040\062\051\361\316\356\154\314\176\002\041
\013\237\157\244\077\276\235\123\342\317\175\251\054\174\130\032
\227\341\075\067\067\030\146\050\032\210\035\121\212\214\030\055
\316\123\210\044\131\040\060\206\305\252\340\326\012\246\100\337
\170\366\365\004\174\151\102\230\204\274\321\321\247\066\171\000\136
\150\030\250\127\273\072\141\125\004\242\233\343\255\374\346\030
\041\155\131\334\111\113\125\025\242\323\011\066\060\101\173\166\063
\042\207\243\030\222\220\206\156\371\160\356\256\207\207\225\033\030
\172\227\061\163\332\432\234\232\345\231\377\276\110\354\165\365\170\026
\035\246\160\301\177\040\332\212\223\333\317\310\074\326\305\223
\012\217\365\125\072\266\225\316\131\230\212\011\225\167\062\232
# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
055\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
047\047\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER_MULTILINE_OCTAL
060\132\061\103\060\011\100\060\003\125\004\006\023\002\106\122\061
022\060\020\060\003\125\004\012\104\150\151\155\171\157
164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
060\062\040\040\064\070\061\064\066\063\060\070\061\060\060\060
066\061\030\060\027\006\003\125\004\003\014\020\103\145\162\164
151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002\021\000\312\351\033\211\136\125\003\015\243\346\101\155\304
\343\246\341
# Certificate "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\030\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\147\061\103\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\030\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\224\060\202\002\174\240\003\002\001\002\002\012\061
\365\344\142\014\154\130\355\326\330\060\015\006\011\052\206\110
# Trust for "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "emSign Root CA - G1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043

# Certificate "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\016\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\104\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\033\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END

# Certificate "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:aecf:00:ba:ca:4f:32:8f:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\011\050\317\135\324\325\147\067\261\121 \313\206\117\001
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END

CKA_ISSUER MULTILINE_OCTAL
\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\060\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262
END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"

# Certificate "emSign ECC Root CA - C3"
#
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"

# Certificate "emSign ECC Root CA - C3"
#
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

END
# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
# Certificate "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\000\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\000\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\000\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\000\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\317\060\202\003\267\240\003\002\001\002\000\240\10
\026\137\212\114\245\354\000\311\223\100\337\304\306\256\043\270
\034\132\244\060\015\006\011\052\206\110\206\015\001\013
\005\000\006\015\076\010\013\060\011\006\003\125\004\006\023\027\110\157\156\147\153\157
\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156\147\153\157
\004\013\157\156\147\061\022\060\020\006\003\125\004\007\023\011
\110\157\156\147\040\113\157\156\147\061\026\060\024\006\003\125
\004\012\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\164\061\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\153\157\156\147\040\120\157\163\164\040\122\157\157\164\040\103
\101\040\063\060\036\027\015\061\067\060\066\060\063\060\062\062
\071\064\066\132\027\015\064\062\060\066\060\063\060\062\071
\064\066\132\060\157\061\013\060\011\006\003\125\004\006\023\002
\110\113\061\022\060\020\006\003\125\004\010\023\011\110\157\156
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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before : Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\000\212\375\077\363\130\271\13\040\136
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\013\060\011\100\003\125\004\000\23\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\000\006\003\125\004\007\023\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\000\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\134\306
\256\043\270\034\132\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:55:65:ad:58

END
Open Source Used In Crosswork Common EMS Services 4.0.0  10406

# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
CKA_CLASS CKOBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\214\161\070\116\037\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\156\061\050\060\046\006\003\125\004
\101\023\037\123\145\145\164\162\165\163\164\056\156\145\145\147\141\154\055\164\145\162
\155\163\060\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\050\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\115\156\164\162\165\163\164\040
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\145\255\130
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 * markupsafe._speedups
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* /opt/cola/permits/1160876786_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-targ.gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/_speedups.c

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1.945 readline 8.0.4-r0
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* /opt/ cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/presentation/EntityTableModel.java
* /opt/ cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/presentation/QueryStats.java
* /opt/ cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/presentation/QueryTableModel.java
* /opt/ cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/presentation/HibernateCachePresentationFactory.java
* /opt/ cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/presentation/CollectionTableModel.java
* /opt/ cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/presentation/QueryTableModel.java

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* /opt/cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-jar/org/terracotta/modules/hibernatecache/jmx/HibernateStatsUtils.java

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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  jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-
  jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-
  jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java
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* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-
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* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-
  jar/io/netty/handler/codec/memcache/binary/MemcacheResponseEncoder.java
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  jar/io/netty/handler/codec/memcache/binary/MemcacheOpcodes.java
* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-
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1.962 spring-beans 3.0.0.RELEASE
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jar/org/springframework/beans/support/SortDefinition.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/access/BootstrapException.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/BeanIsAbstractException.java
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jar/org/springframework/beans/factory/support/InstantiationStrategy.java
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jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
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jar/org/springframework/beans/factory/InitializingBean.java
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jar/org/springframework/beans/factory/DisposableBean.java

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* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-jar/org/springframework/beans/factory/support/BeanFactoryLocator.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
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* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-jar/org/springframework/beans/factory/support/MethodOverride.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-jar/org/springframework/beans/factory/serviceprovider/SecurityContextProvider.java
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jar/org/springframework/beans/factory/config/CommonsLogFactoryBean.java
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jar/org/springframework/beans/factory/config/SingletonBeanRegistry.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/PropertyAccessor.java
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jar/org/springframework/beans/ConversionNotSupportedException.java
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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSR1BZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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  * Python 3 support

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

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

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

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

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

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

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

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanch@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacababadacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytt@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.75.Final
Built-By: norman
Bnd-LastModified: 1646911619441
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution=optional,org.eclipse.jetty.npn;version="[1,2)";resolution=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Tool: Bnd-2.4.1.201501161923
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1.968 yang-parser-impl 0.8.4-Beryllium-SR4

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.981 ncurses 6.3_p20211120-r0

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

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

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<th>Owner</th>
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1.984 hk2-core-module 2.6.1

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### 1.985 istack-commons 3.0.5

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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, https://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation, javax.xml.namespace, javax.xml.stream, org.xml.sax, org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation, javax.xml.stream, org.xml.sax, org.xml.sax.helpers";version="3.0.5", com.sun.istack.logging;version="3.0.5"
Bundle-Name: istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

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1.995 py3-certifi 2020.12.5-r1
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.996 yang-model-util 0.8.4-Beryllium-SR4
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerProvider.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathDecorator.java
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-UNIX-common-4-1-75-final-sources-1.jar/io/netty/channel/UNIX/DomainDatagramSocketAddress.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-UNIX-common-4-1-75-final-sources-1.jar/io/netty/channel/UNIX/DomainDatagramChannel.java

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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
  jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
  jar/io/netty/channel/unix/IovArray.java

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* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/MultiMap.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/Warnings.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/AbstractProfileBuilder.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/RegBuilder.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/BasicRegistryKey.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/BeanTool.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/BasicOptionMap.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/WinEscapeTool.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/BasicProfileSection.java
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* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/IniSource.java
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* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/CommonMultiMap.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/AbstractParser.java
* /opt/cola/permits/1130189384_1612483940.48/0/ini4j-0-5-4-sources-1-jar/org/ini4j/spi/OptionsBuilder.java
*/
1.1008 managementehcacheimpl 2.10.6

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4.2.1-sources-2.jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4.2.1-sources-2.jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
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* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4.2.1-sources-2.jar/com/ctc/wstx/dtd/DTDValidator.java
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* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4.2.1-sources-2.jar/com/ctc/wstx/sw/BufferingXmlWriter.java
jar/com/ctc/wstx/io/ReaderBootstrapper.java

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Found in path(s):
* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4-2-1-sources-2-
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jar/com/ctc/wstx/sw/OutputElementBase.java
* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4-2-1-sources-2-
jar/com/ctc/wstx/sw/SimpleOutputElement.java
* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4-2-1-sources-2-
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* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4-2-1-sources-2-
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* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4-2-1-sources-2-
  jar/com/ctc/wstx/msv/W3CSchemaFactory.java
* /opt/cola/permits/1139150773_1614409100.09/0/woodstox-core-asl-4-2-1-sources-2-
  jar/com/ctc/wstx/util/SymbolTable.java
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## CUP Parser Generator for Java v 0.11b

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/TargetSource.java

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/PointcutAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/target/PoolingConfig.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java

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/*
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/config/AspectEntry.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/support/PrototypeTargetSource.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/support/SimpleBeanTargetSource.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/DynamicIntroductionAdvice.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/IntroductionAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/ClassFilter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/target/EmptyTargetSource.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AopConfigUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AopNamespaceUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/ProxyConfig.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
1.1016 jetty-servlet 8.1.7.v20120910
1.1017 webencodings 0.5.1

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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

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

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
)
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

 Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar-gz/webencodings-0.5.1/setup.py
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====

webencodings.mklabs
~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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====

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string
def generate(url):
    parts = [""
    
    webencodings.labels
    ~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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

    LABELS = {
        ""
        labels = [
            (repr(assert_lower(label)).lstrip('u'),
             repr(encoding['name']).lstrip('u'))
            for category in json.loads(urlopen(url).read().decode('ascii'))
            for encoding in category['encodings']
            for label in encoding['labels']]
        max_len = max(len(label) for label, name in labels)
        parts.extend(
            '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
            for label, name in labels)
        parts.append('})
        return ''.join(parts)

        if __name__ == '__main__':
            print(generate('http://encoding.spec.whatwg.org/encodings.json'))

    Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings/mklabels.py
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    Metadata-Version: 1.1
    Name: webencodings
    Version: 0.5.1
    Summary: Character encoding aliases for legacy web content
    Home-page: https://github.com/SimonSapin/python-webencodings
    Author: Geoffrey Sneddon
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1` tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/PKG-INFO
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-
This is a Python implementation of the `WHATWG Encoding standard` <http://encoding.spec.whatwg.org/>.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

---

1.1018 nghttp2 1.46.0-r0

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1.1020 jctools-core 3.0.0

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Open Source Used In Crosswork Common EMS Services 4.0.0 10933
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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/MailMessage.java

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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/ui/velocity/CommonsLoggingLogSystem.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/quartz/JobDetailAwareTrigger.java

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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/MailException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/javamail/JavaMailSender.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/javamail/MimeMessagePreparator.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/MailAuthenticationException.java

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# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plain java c c++ pl cc h
#
# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
# TEXT TYPES

text/x-speech				talk
text/css				css
text/csv				csv

# IMAGE TYPES
# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixelmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
image/x-png
# Image Exchange Format (RFC 1314)
image/ief
# JPEG
image/jpeg
# RGB
image/rgb
# Group III Fax (RFC 1494)
image/g3fax
# X Windowdump format
image/x-xwindowdump
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmap
# PGM (UNIX PPM package)
image/x-portable-graymap
# PBM (UNIX PPM package)
image/x-portable-bitmap
# PNM (UNIX PPM package)
image/x-portable-anymap
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-raster
# Kodak Photo-CD
image/x-photo-cd
# Computer Graphics Metafile
image/cgm
# CALS Type 1 or 2
image/x-cals
# Fractal Image Format (Iterated Systems)
image/fiff
# QuickSilver active image (Micrografx)
image/x-mgx-dsfdxf
# CMX vector image (Corel)
image/x-cmx
# Wavelet-compressed (Summus)
image/wavelet
# AutoCad Drawing (SoftSource)
image/vnd.dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# """basic"""" audio - 8-bit u-law PCM"
audio/basic snd
# Macintosh audio format (Apple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav wav
# MPEG audio
audio/x-mpegmpa abs mpeg
# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeech
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midimidi
# Koan music data (SSeyo)
application/vnd.koan skp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe
# MPEG-2 video
video/mpeg-2mpv2 mp2v
# Macintosh Quicktime
video/quicktimeqt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movie movie
# VDOlive streaming video (VDOnet)
video/vdo
# Vivo streaming video (Vivo software)
video/vnd.vivo viv

# SPECIAL HTTP/WEB APPLICATION TYPES
# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscriptai eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdfpdf
# Maker Interchange Format (FrameMaker)
application/vnd.mifmif
# Troff document
application/x-trofft tr roff
# Troff document with MAN macros
application/x-troff-manman
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latexlatex
# Tex/LateX document
application/x-tex
tex
# GNU TexInfo document
application/x-texinfo
texinfo texi
# TeX dvi format
application/x-dvidvi
# MS word document
application/msworddoc DOC
# Office Document Architecture
application/oda
doada
# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gturgtar
# 4.3BSD targtar
application/x-tartar
# POSIX tar format
application/x-ustarustar
# Old CPIO format
application/x-bcpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffit
# Fractal Image Format
application/fractals
# "Binary UUencoded"
application/octet-stream
# PC executable
application/octet-stream
# "WAIS "sources"
application/x-wais-sources
# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash
# mBED multimedia data (mBED)
application/mbedlet
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp

# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcnpnc
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulaonets

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrmkl
# WIRL - VRML data (VREAM)
x-world/x-vreamvrw
# Play3D 3d scene data (Play3D)
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrwvr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3mf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5dv5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwfdwf

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jar/org/springframework/mail/MailSendException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/commonj/DelegatingWork.java
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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
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1.1024 ordered-set 4.0.1

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jar/com/hazelcast/spring/hibernate/RegionFactoryBeanDefinitionParser.java
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* /opt/cola/permits/1258904104_1643119113.52/0/hazelcast-spring-4-1-sources-jar/com/hazelcast/spring/cache/HazelcastCacheManager.java
* /opt/cola/permits/1258904104_1643119113.52/0/hazelcast-spring-4-1-sources-jar/com/hazelcast/spring/CacheManagerBeanDefinitionParser.java
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1.1026 netty-resolver-dns-dns-classes-macos

4.1.75.Final

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1.1030 javax-jms-api 2.0.1

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package zipcompare;

import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;
public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
```java
{ 
    System.out.println("Usage: zipcompare [file1] [file2]");
    System.exit(1);
}

ZipFile file1;
try { file1 = new ZipFile(args[0]); } 
    catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1); return; }

ZipFile file2;
try { file2 = new ZipFile(args[1]); } 
    catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1); return; }

System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

Set set1 = new LinkedHashSet();
for (Enumeration e = file1.entries(); e.hasMoreElements(); )
    set1.add(((ZipEntry)e.nextElement()).getName());

Set set2 = new LinkedHashSet();
for (Enumeration e = file2.entries(); e.hasMoreElements(); )
    set2.add(((ZipEntry)e.nextElement()).getName());

int errcount = 0;
int filecount = 0;
for (Iterator i = set1.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }
    try
    {
        set2.remove(name);
        if (!StreamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
```

System.out.println(name + ": IO Error " + e);
e.printStackTrace();
errcount += 1;
continue;
}
filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
  String name = (String)i.next();
  System.out.println(name + " not found in " + args[0]);
  errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
  System.out.println(errcount + " entries did not match");
  System.exit(1);
}
System.exit(0);

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
  byte[] buf1 = new byte[4096];
  byte[] buf2 = new byte[4096];
  boolean done1 = false;
  boolean done2 = false;

  try
  {
    while (!done1)
    {
      int off1 = 0;
      int off2 = 0;

      while (off1 < buf1.length)
      {
        int count = stream1.read(buf1, off1, buf1.length - off1);
        if (count < 0)
        {
          done1 = true;
          break;
        }
        off1 += count;
      }
      while (off2 < buf2.length)
      {

int count = stream2.read(buf2, off2, buf2.length - off2);
if (count < 0)
{
    done2 = true;
    break;
}
off2 += count;
}
if (off1 != off2 || done1 != done2)
    return false;
for (int i = 0; i < off1; i++)
{
    if (buf1[i] != buf2[i])
        return false;
}
return true;
}
finally { stream1.close(); stream2.close(); }
}

1.1038 doxia-sink-api 1.1.2

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

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

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1.1043 tiger-types 1.4
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with the Library, with the complete machine-readable "work that
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@end smallexample

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

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

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

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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1.1054 py3-six 1.16.0-r0

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1.1055 jackson-databind 2.9.6

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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1.1056 plexus-utils 2.0.6

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

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

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distlib has started off using some of the code from distutil2.

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1.1062 activemq-client 5.15.13

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* @version 3.0 (December 2000)
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*  
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

-----

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

* java.sun.security.ssl

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

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OW2

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

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Apache

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

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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* /opt/cola/permits/1003166280_1606872836.03/0/grpc-auth-1-6-0-sources-1-jar/io/grpc/auth/ClientAuthInterceptor.java
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*/
/**
* Converts a Google Auth Library {@link Credentials} to {@link CallCredentials}.
* <p>Although this is a stable API, note that the returned instance's API is not stable. You are
* free to use the class name {@code CallCredentials} and pass the instance to other code, but the
* instance can't be called directly from code expecting stable behavior. See {@link CallCredentials}.
*/

Found in path(s):
* /opt/cola/permits/1003166280_1606872836.03/0/grpc-auth-1-6-0-sources-1-jar/io/grpc/auth/MoreCallCredentials.java

1.1074 apr 1.6.5
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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* *

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* /opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3.0.5-release-sources-1.jar/org/springframework/security/cas/authentication/CasAuthenticationProvider.java
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* /opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3.0.5-release-sources-1.jar/org/springframework/security/cas/userdetails/AbstractCasAssertionUserDetailsService.java

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* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-jar/org/eclipse/jetty/http/AbstractGenerator.java
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jar/org/eclipse/jetty/http/Parser.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpMethods.java
* /opt/cola/permits/1001043554_1646171565.47/0/jetty-http-8-1-7-v20120910-sources-
jar/org/eclipse/jetty/http/HttpBuffersImpl.java
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jar/org/eclipse/jetty/http/HttpException.java
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* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-jar/com/ctc/wstx/stax/WstxEventFactory.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-jar/com/ctc/wstx/io/WstxInputLocation.java
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* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-jar/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-jar/com/ctc/wstx/sax/SAXProperty.java

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* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-jar/com/ctc/wstx/dtd/DFAValidator.java
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  jar/org/springframework/security/web/FilterInvocation.java
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* /opt/ws_local/PERMITS_SQL/1068903931_1594468524.84/0/spring-security-web-3-0-3-release-sources-1.jar/org/springframework/security/web/access/channel/ChannelProcessor.java
* /opt/ws_local/PERMITS_SQL/1068903931_1594468524.84/0/spring-security-web-3-0-3-release-sources-1.jar/org/springframework/security/web/access/channel/SecureChannelProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068903931_1594468524.84/0/spring-security-web-3-0-3-release-sources-1.jar/org/springframework/security/web/access/channel/SecurityContextHolderAwareRequestFilter.java
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1.1103 commons-logging 1.1

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierMethodVisitor.java
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1.1112 hazelcast-sql 4.1.1

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* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-jar/io/netty/channel/unix/Limits.java

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1.1115 ezmorph 1.0.5

1.1116 apache-log4j 2.17.1
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