Open Source Used In Crosswork Optimization Engine 4.0.0

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1.3 jackson-jaxrs-base 2.9.6

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1.4 heimdal 7.7.0+dfsg-1ubuntu1

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/atn/SemanticContext.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/atn/EpsilonTransition.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/Lexer.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/VocabularyImpl.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/atn/LexerActionType.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/atn/ATNState.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/RuleContextWithAltNum.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java

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- /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/antlr4-4.8.1-sources.jar/ANTLR4RuntimeModule.java
- /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/antlr4-4.8.1-sources.jar/antlr4-runtime/lite/Tree/ParseTreeProperty.java
- /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/antlr4-runtime/lite/Tree/RuleNode.java
- /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/antlr4-runtime/lite/Tree/xpath/XPath.java
- /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/antlr4-runtime/lite/Tree/xpath/XPathWildcardAnywhereElement.java
- /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/antlr4-runtime/lite/Tree/ListTokenSource.java
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* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/misc/Utils.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardElement.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathLexerErrorListener.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/tree/ParseTree.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/UnbufferedCharStream.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/UnbufferedInputStream.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/UnbufferedInputStream.java
* /opt/ws_local/PERMITS_SQL/1092523039_1600741420.05/0/antlr4-runtime-4-8-1-sources-jar/org/antlr/v4/runtime/atn/ATNConfig.java
1.7 pax-jdbc-postgresql 0.4.0

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1.8 jcl-over-slf4j 1.6.6
1.9 jetty-jndi 9.4.28.v20200408

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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

-----

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

-----

MortBay

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

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas
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1.11 py3-distro 1.5.0-r3
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1.13 bleach 5.0.1

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1.18 pam 1.3.1-5ubuntu4.3
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1.19 py3-distlib 0.3.3-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 (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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releases have also been GPL-compatible; the table below summarizes
the various releases.

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=======================
Distutils2 Contributors
=======================

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martín Brugu
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- Godefroid Chapelle
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1.21 jersey-media-jaxb 2.27

1.22 libxkbcommon 0.8.0

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

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### 1.25 urllib3 1.25.8

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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/@WBRSRIBZDhBFQ6/>
  * Code review, PEP8 compliance, benchmark fix

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

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  * Bugfixes, Improvements and Test coverage
* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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  * 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@ravelosystems.com>
  * Allowed to skip SSL hostname verification

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

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

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

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

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

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

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

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

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

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

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

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

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

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

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

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

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

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

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

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

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

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

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

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

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

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

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

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urlib2.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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1.26 retrying 1.3.3

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1.29 geronimo-jpa 1.1
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1.33 sal-cluster-admin-impl 2.0.6
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* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
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* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
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* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
* /opt/cola/permits/1347859369_1655735045.136496/0/spring-tx-5-3-21-sources-jar/org/springframework/transaction/ReactiveTransaction.java
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  jar/org/springframework/dao/DuplicateKeyException.java
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jar/org/springframework/dao/CleanupFailureDataAccessException.java
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jar/org/springframework/dao/DataIntegrityViolationException.java
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jar/org/springframework/transaction/TransactionTimedOutException.java
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jar/org/springframework/transaction/jta/UserTransactionAdapter.java
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jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
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jar/org/springframework/transaction/NoTransactionException.java
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jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
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jar/org/springframework/transaction/annotation/PersistenceExceptionTranslationAdvisor.java
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jar/org/springframework/transaction/CannotCreateTransactionException.java
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jar/org/springframework/transaction/IllegalTransactionStateException.java
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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

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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
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

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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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1.39 mssql-jdbc 7.4.1.jre8

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1.47 jetty-util-ajax 9.4.46.v20220331

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* org.eclipse.jetty.orbit:javax.mail.glassfish
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1092524957_1602546588.3/0/pax-web-extender-whiteboard-7-2-16-sources-jar/org/ops4j/pax/web/extend/whiteboard/internal/element/ListenerWebElement.java

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DESCRIPTION

The whiteboard extender, extends the HTTP Service with the capability to register HTTP Services via the whiteboard pattern.

This is an internal bundle for enhancing Pax Web HTTP Service.

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1.56 bzip2 1.0.8-r1

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1.58 libsepol 3.0 1ubuntu0.1

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1.61 py3-requests 2.26.0-r1

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1.62 asm 3.3.1
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  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
  jar/org/objectweb/asm/XML/Processor.java
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  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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  jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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1.67 pkgconf 1.8.0-r0

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1.68 python-certifi 2020.06.20

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1.73 xbean-finder-shaded 4.12

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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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digraph G {
  rankdir="LR";
  label = "label demo";
  subgraph cluster0 {
    a;
    b;
    a->b;
    label = "cluster0";
    labeljust="left";
  }
  subgraph cluster1 {
    c;
    d;
    c->d;
    label = "cluster1";
  }
}

This package was originally debianized by Stephen M Moraco <stephen@debian.org> on Fri, 31 Dec 1999 15:37:17 -0700.

It was downloaded from http://www.graphviz.org/

Upstream Authors:

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and
David Dobkin (spline-o-matic)
Vladimir Alexiev (codegen improvements)

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>
digraph G {
  rankdir="LR";
  label = "label demo";
  labeljust="left";
  subgraph cluster0 {
    a;
    b;
    a->b;
    label = "cluster0";
    labelloc="bottom"
  }
  subgraph cluster1 {
}
c;
d;c->d;
label = "cluster1";
lабелю="top"
}
}

1.91 fts 1.2.7-r1
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1.92 jul-to-slf4j 1.7.36
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  *
/*

Found in path(s):
* /opt/cola/permits/1281455938_1646319090.87/0/jul-to-slf4j-1-7-36-sources.jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.93 eclipse-persistence-core 2.7.7

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1.94 deltaspike-proxy-module-impl-asm5

1.8.1

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## 1.98 psycopg2-pool 1.1

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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

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

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

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

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

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

* georgemarshall <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@ibofo.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

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

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

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

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

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

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

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

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

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

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

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

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

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

* Evgeny Kapun <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 <alexdias@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 `urlib2.urlopen().geturl()` behavior

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

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

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

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

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

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

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

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

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

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

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

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

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

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

---

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1.106 jetty-util 9.4.46.v20220331

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* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityGraph.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/Named.Subgraph.java
* /opt/cola/permits/1157317056_1654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityGraph.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/SslContextOption.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/BouncyCastle java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/AsyncRunnable.java

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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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  jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
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jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.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/PemEncoded.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.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/ReferenceCountedOpenSslEngine.java
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  jar/io/netty/handler/pcap/EthernetPacket.java
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  jar/io/netty/handler/pcap/package-info.java
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  jar/io/netty/handler/pcap/PcapWriter.java
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  jar/io/netty/handler/pcap/TCPPacket.java
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  jar/io/netty/handler/pcap/PcapWriteHandler.java
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  jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

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1.116 jackson-dataformat-yaml 2.13.3
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1.117 utmps 0.1.0.2-r0

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1.118 sqlite 3.36.0-r0
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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 mutexing 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
 ** mutexing 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
the [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] [=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.

[[SQLITE_CONFIG_MALLOC]]

(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.

[[SQLITE_CONFIG_GETMALLOC]]

(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.

[[SQLITE_CONFIG_SMALL_MALLOC]]

(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 applications 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.

[[SQLITE_CONFIG_MEMSTATUS]]

(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>
  <li>[sqlite3_memory_used()]</li>
  <li>[sqlite3_memory_highwater()]</li>
</ul>
** <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 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.</dd>

**</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>

**</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>

**</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 Default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^</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.

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.

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 a log message after formatting via [sqlite3_snprintf()].

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.

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.

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
[SQeLITE_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
[SQeLITE_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.

*/

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-
3380000/sqlite3.h
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>
** [[SQeLITE_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 mutexing 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**
**mutexing 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 simulates 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),
** 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>
**^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>
**^(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 mutxing 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/> 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>SILITE_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>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>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>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_STMTJRNLL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNLL_SPILL
** <dd>*The SQLITE_CONFIG_STMTJRNLL_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_STMTJRNLL_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.
** </dl>
*/

/*

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.

The author disclaims copyright to this source code. In place of 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
No license file was found, but licenses were detected in source scan.

/* 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

1.119 **py3-ordered-set 4.0.2-r2**
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1.124 kafka-clients 3.1.1

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1.125 servlet-jersey2 0.12.1

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* /opt/cola/permits/1345092004_1655309070.0398376/0/netty-resolver-4-1-77-final-sources-1-
  jar/io/netty/resolver/AddressResolver.java
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  jar/io/netty/resolver/DefaultNameResolver.java
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1.127 gnutls 3.6.13-2ubuntu1.6

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Constant-time SSSE3 AES core implementation.

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##
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jar/org/hsqldb/util/preprocessor/Preprocessor.java
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jar/org/hsqldb/util/preprocessor/Defines.java
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jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
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/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to send to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
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 * /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java

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SqlFile processor v. \{1\}.
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\q to Quit.
\? lists Special Commands.
?: lists Edit-Buffer/History commands.
*? lists PL commands.
/? displays help on how to set and use macros (incl. functions).

SPECIAL Commands begin with \ and execute when you hit ENTER.
EDIT-BUFFER / HISTORY Commands begin with ': ' and execute when you hit ENTER.
PROCEDURAL LANGUAGE commands begin with '*' and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ';' (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).
After turning on variable expansion with command "*" (or any other PL command), PL variables may be used in most commands like so: *{PLVARNAME}.
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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/Schema.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/index/NodeAVLDiskLarge.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/persist/ResultProperties.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/persist/RowInsertVersioning.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/lib/HsqlHeap.java
jar/org/hsqldb/lib/tar/TarMalformatException.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/test/TestDirectorySettings.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/lib/tar/PIFData.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/test/TestLibSpeed.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/jdbc/JDBCResultSetMetaData.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/persist/DataSpaceManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/lib/StringUtil.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/TableWorks.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/ParserRoutine.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/persist/HsqlProperties.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/types/IntervalType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/jdbc/pool/JDBCXADataSource.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/SqlInvariants.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/SchemaObjectSet.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/types/TimeData.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/TransactionManagerCommon.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/TransferDb.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/lib/DoubleIntIndex.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/persist/TextTableStorageManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/sample/SqlFileEmbedder.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/lib/IntKeyHashMapConcurrent.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/auth/AuthFunctionBean.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/error/ErrorCode.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-
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jar/org/hsqldb/scriptio/StatementLineTypes.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/tar/PIFGenerator.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/SessionData.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/TransferSQLText.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/HsqlTaskQueue.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/IntKeyLongValueHashMap.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/scriptio/ScriptWriterEncode.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/RowDiskDataChange.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/HsqlDateTime.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/RangeGroup.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/dbinfo/DatabaseInformationFull.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/RefCapablePropertyResourceBundle.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/pool/JDBCXAConnectionWrapper.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/DatabaseManager.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestCollation.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCClob.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/ExpressionOp.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Expression.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/RAFile.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/RAFileSimple.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/TextFileReader8.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Token.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/InputStreamWrapper.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/CachedObject.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/ColumnBase.java
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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/server/PgType.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/sample/DatabaseManagerSample.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/DirectoryBlockCachedObject.java
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/tar/TarGenerator.java
jar/org/hsqldb/lib/ReadWriteLockDummy.java
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 *
 */
/**
 * provides cross-package access to the proprietary (i.e. non-JDBC)
 * HSQLDB session interface. <P>
 * 
 * @return the underlying sessionProxy for this connection
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2.5.0-sources-
jar/org/hsqldb/jdbc/JDBCConnection.java
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  */
/**
  * Comprehensive information about the database as a whole.
  *</p>
  * This interface is implemented by driver vendors to let users know the capabilities
  * of a Database Management System (DBMS) in combination with
  * the driver based on JDBC technology
  * ("JDBC driver") that is used with it. Different relational DBMSs often support
  * different features, implement features in different ways, and use different
  * data types. In addition, a driver may implement a feature on top of what the
  * DBMS offers. Information returned by methods in this interface applies
  * to the capabilities of a particular driver and a particular DBMS working
  * together. Note that as used in this documentation, the term "database" is
  * used generically to refer to both the driver and DBMS.
  *</p>
  * A user for this interface is commonly a tool that needs to discover how to
  * deal with the underlying DBMS. This is especially true for applications
  * that are intended to be used with more than one DBMS. For example, a tool might use the method
  * &lt;code&gt;getTypeInfo&lt;/code&gt; to find out what data types can be used in a
  * &lt;code&gt;CREATE TABLE&lt;/code&gt; statement. Or a user might call the method
  * &lt;code&gt;supportsCorrelatedSubqueries&lt;/code&gt; to see if it is possible to use
  * a correlated subquery or &lt;code&gt;supportsBatchUpdates&lt;/code&gt; to see if it is
  * possible to use batch updates.
  *</p>
Some `DatabaseMetaData` methods return lists of information in the form of `ResultSet` objects. Regular `ResultSet` methods, such as `getString` and `getInt`, can be used to retrieve the data from these `ResultSet` objects. If a given form of metadata is not available, an empty `ResultSet` will be returned. Additional columns beyond the columns defined to be returned by the `ResultSet` object for a given method can be defined by the JDBC driver vendor and must be accessed by their column label.

Some `DatabaseMetaData` methods take arguments that are string patterns. These arguments all have names such as `fooPattern`. Within a pattern string, `%` means match any substring of 0 or more characters, and `_` means match any one character. Only metadata entries matching the search pattern are returned. If a search pattern argument is set to `null`, that argument's criterion will be dropped from the search.

A method that gets information about a feature that the driver does not support will throw an `SQLException`.

In the case of methods that return a `ResultSet` object, either a `ResultSet` object (which may be empty) is returned or an `SQLException` is thrown.

Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production implementation provided in the default build filters metadata based on each SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2 restriction that only users with the DBA role ('admin' users in older HSQLDB parlance) could expect trouble-free access to all metadata.

Also starting with HSQLDB 1.7.2, the metadata table production implementation classes are loaded dynamically, using a precedence policy to find and load the richest producer available at runtime. In the event that no better alternative is found, the default minimal (completely restricted) provider is selected. Under this scheme, it is possible for third party packagers to create custom distributions targeted at supporting full (design-time), custom-written (proprietary / micro environment), minimal (production-time) or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more about this option, interested parties can review the documentation and source.
* code for the `<code>org.hsqldb.dbinfo.DatabaseInformation</code>` class.

* Please also note that in addition to the metadata tables produced to
  * directly support this class, starting with HSQLDB 1.7.2, the default build
  * provides many additional tables covering all or most HSQLDB features, such
  * as descriptions of the triggers and aliases defined in the database.

* For instance, in the default build, a fairly comprehensive description of
  * each `INFORMATION_SCHEMA` table and each `INFORMATION_SCHEMA` column
  * is included in the `REMARKS` column of the `getTables(...)` and `getColumns(...)` results, which derive
  * from `INFORMATION_SCHEMA.SYSTEM_TABLES` and `INFORMATION_SCHEMA.SYSTEM_COLUMNS`,
  * respectively.

* Since HSQLDB 2.0 the `INFORMATION_SCHEMA` views have been vastly expanded
  * in compliance with the SQL:2011 Standard and report the properties of all
  * database objects.

* The `SQL SCHEMA` concept became fully supported in the HSQLDB 1.8.x series and
  * this fact is reflected in the all subsequent versions of this class.

* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
  * is a major theme which is reflected in the provision of the majority of the
  * standard-defined full-name `INFORMATION_SCHEMA` views.

* However, just as `CATALOG` semantics and handling are still considered to be
  * implementation defined by the most recent SQL standard (SQL:2008), so is the
  * HSQLDB `CATALOG` concept still in the process of being defined and refined in
  * HSQLDB 2.x. and beyond.

* Previous to HSQLDB 2.x, there were, at various points in time, experimental
  * features provided to turn on pseudo catalog (and before that, pseudo-schema)
  * reporting in the system tables, using the database properties
  * `hsqldb.catalogs` and `hsqldb.schemas`, respectively.

* However, once the engine fully supported the `SQL SCHEMA` concept, the
  * experimental `hsqldb.schemas` * database property was retired.

* Similarly, starting with HSQLDB 2.x, the `hsqldb.catalogs` database property
  * has been retired and replaced with the convention that, from the perspective
  * of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
  * database instance which consists of a single, default `CATALOG`
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
* catalogs within a single session, not even in a one-at-a-time fashion.
*
* &lt;h4&gt;Index Metadata&lt;/h4&gt;
*
* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the &lt;code&gt;approximate&lt;/code&gt; argument of \{@link #getIndexInfo
* getIndexInfo()\} as no data is returned for CARDINALITY and PAGES columns.
* &lt;/h4&gt;Notes for developers extending metadata table production&lt;/h4&gt;
*
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order. The reason for this is that results typically come
* back much faster when no &quot;ORDER BY&quot; clause is used. &lt;p&gt;
* &lt;/p&gt;
* As such, when adding, extending or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
*
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* /opt/ws_local/PERMITS_SQL/1012932394_1588629987.18/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java

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1.134 deltaspoke-core-api 1.8.1

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

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8

1.136 python 3.9.7-r4
1.136.1 Available under license:

A. HISTORY OF THE SOFTWARE

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

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

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

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

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.137 spring-plugin-metadata 2.0.0.RELEASE

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1.139 management-core-resources 2.1.6
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file (certdata.txt). This file can be found in the mozilla source tree:
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1.143 osgi-service-jdbc 1.0.0

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Manifest-Version: 1.0
Bnd-LastModified: 1644737862078
Build-Jdk: 11.0.14
Built-By: uriel
Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language
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Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: json-smart
Bundle-SymbolicName: net.minidev.json-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.8
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer";version="2.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.reader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.writer;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.8"
Import-Package: net.minidev.asm;version="[2.4,3)”,net.minidev.json.net.minidev.json.annotate.net.minidev.json.parser.net.minidev.json.reader
r.net.minidev.json.writer
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1301894975_1649303968.12/0/json-smart-2-4-8-1-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1301894975_1649303968.12/0/json-smart-2-4-8-1-jar/META-INF/maven/net.minidev/json-smart/pom.xml

1.146 expat 2.2.9 1ubuntu0.4

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Upstream-Contact: Sebastian Pipping <sebastian@pipping.org>
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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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<th>Year</th>
<th>Owner</th>
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 * command :
 * $ ./checkTag tag
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* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
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1.156 pax-url-commons 2.6.2

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* /opt/cola/permits/1269652415_1644566157.29/0/pax-url-commons-2-6-2-sources-jar/org/ops4j/pax/url/commons/handler/ConnectionFactory.java

1.157 pax-url-aether-support 2.6.2

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* /opt/cola/permits/1269652364_1644566022.83/0/pax-url-aether-support-2-6-2-sources-jar/org/eclipse/aether/internal/impl/PaxLocalRepositoryManager.java

1.158 pax-web-spi 7.2.16
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* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/WarManager.java
* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/model/WebSocketModel.java
* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/util/NamedThreadFactory.java
* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/ServletListener.java

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  * /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/model/LoginConfigModel.java
  * /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/model/ContainerInitializerModel.java
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* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/ServerControllerEx.java
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* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/WebEvent.java
* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/WebListener.java
* /opt/ws_local/PERMITS_SQL/1092524343_1600741789.65/0/pax-web-spi-7-2-16-sources-jar/org/ops4j/pax/web/service/spi/WebTopic.java

1.159 netty-transport 4.1.77.Final

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  jar/io/netty/channel/DefaultChannelHandlerContext.java

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jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
  jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
  jar/io/netty/channel/ChannelHandlerMask.java

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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
  jar/io/netty/channel/StacklessClosedChannelException.java

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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/pool/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/DefaultChannelProgressivePromise.java
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/ChannelId.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/socket/oio/DefaultOioSocketChannelConfig.java
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/ConnectTimeoutException.java
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/ChannelHandlerAdapter.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>
 *
 * [@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>
 *
 * 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>
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 `AttributeKey`)s which is specific to the handler.

State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(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:
* Create a new handler instance per channel.
* See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer] &lt;[@link Channel] &gt; { 
  * { @code @Override }
  * public void initChannel([@link Channel] channel) {
  *     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
  * }
  * }
  *
  * </pre>
* 
* <h4>Using [@link AttributeKey]s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
* <pre>
  * public interface Message {
  *     // your methods here
  * }
  *
  * { @code @Sharable }
  * public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; { 
  *     private final [@link AttributeKey] &lt;[@link Boolean] &gt; auth =
  *         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
  *
  * { @code @Override }
  * public void channelRead([@link ChannelHandlerContext] ctx, Message message) {
  *     { @link Attribute } &lt;[@link Boolean] &gt; attr = ctx.attr(auth);
  *     if (message instanceof LoginMessage) {
  *         authenticate((LoginMessage) o);
  *         <b>attr.set(true)</b>;
  *     } else (message instanceof GetDataMessage) {
  *         if (<b>Boolean.TRUE.equals(attr.get())</b>) {
  *             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
  *         } else {
  *             fail();
  *         }
  *     }
  * }
  * }
  * ... 
  *
  * </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {  
  *  
  *     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();  
  *  
  *     {@code @Override}  
  *     public void initChannel({@link Channel} channel) {  
  *         channel.pipeline().addLast("handler", <b>SHARED</b>);  
  *     }  
  * }  
* </pre>  
*  
*  
* <h4>The {@code @Sharable} annotation</h4>  
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
*  
* <h3>Additional resources worth reading</h3>  
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* */  

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  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/DefaultChannelPromise.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/oio/AbstractOioByteChannel.java
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-
jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/ChannelFactory.java

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* /opt/cola/permits/1345091977_1655309071.7822323/0/netty-transport-4-1-77-final-sources-1-jar/io/netty/channel/AbstractCoalescingBufferQueue.java

1.160 pax-jdbc-teradata 1.4.4

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* /opt/ws_local/PERMITS_SQL/1092523462_1600741447.57/0/pax-jdbc-teradata-1-4-4-sources-
  jar/org/ops4j/pax/jdbc/teradata/impl/TeradataDataSourceFactory.java
* /opt/ws_local/PERMITS_SQL/1092523462_1600741447.57/0/pax-jdbc-teradata-1-4-4-sources-
  jar/org/ops4j/pax/jdbc/teradata/impl/Activator.java
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  INF/maven/org.ops4j.pax.jdbc/pax-jdbc-teradata/pom.xml

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1.164 yang-parser-spi 5.0.7

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 *
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 *
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 * delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
 *
 * @author Rossen Stoyanchev
 * @since 3.1
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jar/org/springframework/web/servlet/function/AsyncServerResponse.java
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* /opt/cola/permits/1347861363_1655734693.0962408/0/spring-webmvc-5-3-21-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PrincipalMethodArgumentResolver.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.

@since 2.0

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* /opt/cola/permits/1347861363_1655734693.0962408/0/spring-webmvc-5-3-21-sources-jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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1.172 jackson-datatype-jdk8 2.12.6
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1.173 fonts-dejavu 2.37-1
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1.175 jetty-webapp 9.4.28.v20200408

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

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* java.sun.security.ssl

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.176 googleapis-common-protos 0.0.3

1.177 ietf-netconf-notifications 1.9.1

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* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-jar/io/netty/resolver/package-info.java
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jar/io/netty/resolver/ResolvedAddressTypes.java
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jar/io/netty/resolver/HostsFileEntries.java

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jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
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jar/io/netty/resolver/InetNameResolver.java
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jar/io/netty/resolver/InetSocketAddressResolver.java
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jar/io/netty/resolver/HostsFileEntriesResolver.java
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jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-
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1.183 cdi-api 1.2
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1.187 apache-karaf-service-guard 4.2.9

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1.191 grpc-services 1.46.0

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1.193 jetcd-common 0.7.1

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1.194 backoff 2.1.2

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1.195 jetty-security 9.4.28.v20200408

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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

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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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1.196.1 Available under license :
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1.197 apache-servicemix-specs-locator 2.9.0
1.197.1 Available under license :

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* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
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* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1346931666_1655514416.3626292/0/netty-resolver-4-1-78-final-sources-jar/io/netty/resolver/InetNameResolver.java

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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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*/opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
*/opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ipfilter/package-info.java
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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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1.202 xnio-api 3.3.8.Final

1.203 classgraph 4.8.83

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1.204 json-path 2.7.0

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* /opt/cola/permits/1271842986_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/InvalidPathException.java
* /opt/cola/permits/1271842986_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/JsonPath.java
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* /opt/cola/permits/1271842986_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/PathNotFoundException.java
* /opt/cola/permits/1271842986_1644941733.33/0/json-path-2-7-0-sources-jar/com/jayway/jsonpath/ParseContext.java

1.205 apr-util 1.4.1

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include/GL/glxext.h
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintTarget.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java
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  jar/javax/validation/metadata/ExecutableDescriptor.java
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  jar/javax/validation/BootstrapConfiguration.java
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  jar/javax/validation/spi/ConfigurationState.java
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  jar/javax/validation/ConstraintViolationException.java
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  jar/javax/validation/ConstraintValidatorFactory.java
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  jar/javax/validation/ValidatorFactory.java
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  jar/javax/validation/ReportAsSingleViolation.java
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  jar/javax/validation/ReportAsSingleViolation.java
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1.212 lz4-java 1.7.1

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1.213 mdsal-common-util 6.0.7

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1.217 libgcrypt 1.8.5 5ubuntu1.1

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LIBGCRYPT Werner Koch 2001-06-07
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GNUPG Matthew Skala 1998-08-10
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GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
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Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
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ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
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LIBGCRYPT Simon Josefsson 2002-10-25
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LIBGCRYPT Moritz Schulte 2003-04-17
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
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(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
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(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
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(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Miller 2012-02-15
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(Changes to cipher/idea.c and related files)

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

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

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

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* java.sun.security.ssl

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

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network applic
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rmance 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
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/All-in-One
Bundle-Version: 4.1.75.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-all/

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* /opt/cola/permits/1301895027_1649303978.82/0/netty-all-4-1-75-final-jar/META-INF/MANIFEST.MF

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@c ispell-local-pdict: "ispell-dict"
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Version 3, 29 June 2007

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1.1.8

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1.266 springdoc-openapi-ui 1.5.12

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    jar/org/springdoc/webmvc/ui/SwaggerIndexTransformer.java

1.267 jersey-container-servlet-core 2.6

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1.268 spring-expression 5.3.18

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1.284 kerberos 1.17-6ubuntu4.1

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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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1.287 ops4j-base-spi 1.5.1

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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.cni.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:

c-a-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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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.291 python-tls 0.8.0.3
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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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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
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1.295 mdsal-binding-spec-util 6.0.7

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1.296 netty 4.1.48.Final

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jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /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/example/stomp/websocket/StompVersion.java
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jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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jar/io/netty/buffer/search/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/haproxy/HAProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/example/stomp/websocket/StompWebSocketChatServerInitializer.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/scpt/SctpChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.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/rxtx/RxtxChannelConfig.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/DefaultHttp2ConnectionDecoder.java
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Utility class for ByteBuf that encodes and decodes to and from Base64 notation. The encoding and decoding algorithm in this class has been derived from Robert Harder's Public Domain Base64 Encoder/Decoder.
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.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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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.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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  jar/io/netty/handler/codec/sctp/package-info.java
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  jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-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>
 *
 * |[@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>
 *
 * |[@link ChannelHandlerContext] is provided with a {[@link ChannelHandlerContext]}

---

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* 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]<Message> {
*
*     private boolean loggedIn;
*
*     @Override
*     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 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:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}. [h]
* * public class DataServerInitializer extends [@link ChannelInitializer] &lt;Channel&gt; {
*     @Override
*     public void initChannel([@link 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
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```
The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `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 `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
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/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
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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/websocket/WebSocket13FrameDecoder.java
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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/SingletonDnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/InetNameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

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 */
A decoder that splits the received `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.

`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.

2 bytes length field at offset 0, do not strip header

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.

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

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

```
 /></pre>

2 bytes length field at offset 0, strip header

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

```
initialBytesToStrip = 2 (= the length of the Length field)
```

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

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td></td>
</tr>
</tbody>
</table>
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----------------+ +-----------------+
* </pre>
* 
* 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}/\texttt{length}/. Because the length value in this example message
* is always greater than the body length by \texttt{2}/\texttt{2}/, we specify \texttt{2}/\texttt{2}/ for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* \texttt{lengthAdjustment}/\texttt{length}/ = \texttt{2}/\texttt{2}/ (= 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. \texttt{lengthAdjustment}/\texttt{length}/ is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* \texttt{lengthField}/\texttt{length}/ = \texttt{2}/\texttt{2}/ (= the length of Header 1)
* \texttt{lengthField}/\texttt{length}/ = \texttt{3}/\texttt{3}/
* 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>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \texttt{lengthAdjustment}/\texttt{length}/ is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* \texttt{lengthField}/\texttt{length}/ = \texttt{3}/\texttt{3}/ (= the length of Header 1)
* \texttt{lengthField}/\texttt{length}/ = \texttt{5}/\texttt{5}/
* 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>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \texttt{lengthAdjustment}/\texttt{length}/ is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* \texttt{lengthField}/\texttt{length}/ = \texttt{3}/\texttt{3}/ (= the length of Header 1)
* \texttt{lengthField}/\texttt{length}/ = \texttt{5}/\texttt{5}/
* 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" |
* +----------+----------+----------------+      +----------+----------+----------------+
* 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 |------+
  * | 0x00000C |  0xCAFE | “HELLO, WORLD” |
  * +----------+----------+----------------+------+
  *
  * </pre>
  *
  * `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,
    strip the first header field and the length field`</h3>
  *
  * This is a combination of all the examples above. There are the prepended
    header before the length field and the extra header after the length field.
  * The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
    header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
    `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
    header from the frame. If you don't want to strip the prepended header, you
    could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

* `<pre>
  * lengthFieldOffset   = 1 (= the length of HDR1)
  * lengthFieldLength   = 2
  * `<b>`lengthAdjustment`</b>` = `<b>`1`</b>` (= the length of HDR2)
  * `<b>`initialBytesToStrip`</b>` = `<b>`3`</b>` (= the length of HDR1 + LEN)
  *
  * BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
  * +------------+----------------+
  * | HDR1 | Length | HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE | “HELLO, WORLD” |
  * +------------+----------------+
  *
  * </pre>
  *
  * `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,
    strip the first header field and the length field, the length field
    represents the length of the whole message`</h3>
  *
  * Let's give another twist to the previous example. The only difference from
    the previous example is that the length field represents the length of the
    whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.
* `<pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* `<b>`lengthAdjustment`<`/b>` = `<b>`-3`<`/b>` (= the length of HDR1 + LEN, negative)
* `<b>`initialBytesToStrip`<`/b>` = `<b>`3`<`/b>`
* `</pre>`
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.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/HpackHuffmanDecoder.java
* /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
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java

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*/
/** *
* Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/** *
* Set the { @code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
* for more details.
/*

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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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/handler/codec/http2/HttpConversionUtil.java

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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
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslAllX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslCachingKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslDefaultKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslX509TrustMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslX509TrustMaterial.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslServerSideHandshakePkg.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslServerSideHandshakePkgTransport.h
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslServerSideHandshakePkgTransportImpl.h
1.297 apache-felix-http-servlet-api 1.1.2

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1.304 netty-transport 4.1.75.Final

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* /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/OioEventLoopGroup.java
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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/AbstractOioChannel.java
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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/channel/ChannelOutboundBuffer.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].
 *
 * [@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>*

* 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}<Message> {

    private boolean loggedIn;

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

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

*     }
* }

* </pre>
* 

* <h4>Using {@link AttributeKey}s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {[@link ChannelHandlerContext]}:
* 
* 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);
*             &lt;b&gt;attr.set(true)&lt;/b&gt;;
*         } else (message instanceof GetDataMessage) {
*             if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
*                 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:
* 
* public class DataServerInitializer extends {[@link ChannelInitializer] &lt; [ @link Channel ] &gt; } {
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
* 
*     {[@code @Override]}
*     public void initChannel([[@link Channel] channel] {
* &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
* 
*     {[@code @Override]}
*     public void initChannel([[@link Channel] channel] {
channel.pipeline().addLast("handler", "SHARED");
}
}
</pre>

<h4>The @Sharable annotation</h4>

In the example above which used an @link AttributeKey, you might have noticed the @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.

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1.317 pax-web-descriptor 7.2.16

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* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/web-
  fragment_3_1.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-
  jar/xsd/javaee_web_services_client_1_4.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/jsp_2_3.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-
  jar/xsd/javaee_web_services_1_4.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/javaee_7.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/web-app_3_1.xsd

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---
The transport-guaranteeType specifies that the communication between client and server should be NONE, INTEGRAL, or CONFIDENTIAL. NONE means that the application does not require any transport guarantees. A value of INTEGRAL means that the application requires that the data sent between the client and server be sent in such a way that it can't be changed in transit. CONFIDENTIAL means that the application requires that the data be transmitted in a fashion that prevents other entities from observing the contents of the transmission. In most cases, the presence of the INTEGRAL or CONFIDENTIAL flag will indicate that the use of SSL is required.

Used in: user-data-constraint

<p>Classe Java pour transport-guaranteeType complex type.</p>

<p>Le fragment de schéma suivant indique le contenu attendu figurant dans cette classe.</p>

&lt;complexType name="transport-guaranteeType"&gt;
    &lt;simpleContent&gt;
        &lt;restriction base="&lt;http://xmlns.jcp.org/xml/ns/javaee>string"&gt;
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--
SYSTEM "http://www.w3.org/2001/xml.xsd" "xsd/xml.xsd"

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* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/web-app_2_4.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/jsp_2_0.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/web-app_2_5.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/j2ee_web_services_1_1.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/j2ee_1_4.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/web-jstpaglibrary_2_0.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/j2ee_web_services_client_1_1.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/web-jstpaglibrary_2_1.xsd
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/xml.xsd
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changed in transit. CONFIDENTIAL means that the application
CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /opt/cola/permits/1092524881_1602546942.72/0/pax-web-descriptor-7-2-16-sources-jar/xsd/web-
common_3_1.xsd

1.318 apache-karaf-bundle-blueprintstate
4.2.9
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1.323 apache-karaf-jaas-modules 4.2.9

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* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/AsyncExecution.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/AbstractExecution.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/CircuitState.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/OpenState.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/CheckedFunction.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/FailsafeException.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/RetryPolicy.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/CircuitBreakerOpenException.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/HalfOpenState.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/CircuitBreakerInternals.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/ContextualRunnable.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/Functions.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/ExecutionContext.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/internal/ClosedState.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/Failsafe.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/AsyncRunnable.java
* /opt/cola/permits/1248079029_1640410634.49/0/failsafe-2-4-4-sources-jar/net/jodah/failsafe/function/AsyncSupplier.java
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1.333 animal-sniffer-annotation 1.19

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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

------

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
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

The following artifacts are ASL2 licensed.

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

The following artifacts are CDDL + GPLv2 with classpath exception. 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

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
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.

1.340 apache-karaf-scr-state 4.2.9
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From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VIAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
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1.352 ops4j-base-store 1.5.1

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 */
/***/
A decoder that splits the received `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>* lengthFieldOffset   = <tt>0</tt>* lengthFieldLength   = <tt>2</tt>* lengthAdjustment    = <tt>0</tt>* initialBytesToStrip = <tt>0</tt> (= 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 `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   = <tt>0</tt>* lengthFieldLength   = <tt>2</tt>* lengthAdjustment    = <tt>0</tt>* initialBytesToStrip = <tt>2</tt> (= the length of the Length field)*

* BEFORE DECODE (14 bytes)          AFTER DECODE (12 bytes)*
* +--------+----------------+      +----------------+* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* 2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message

* 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}. Because the length value in this example message
* is always greater than the body length by \texttt{2}, we specify \texttt{2} for
* \texttt{lengthAdjustment} for compensation.

* \texttt{lengthFieldOffset} = 0
* \texttt{lengthFieldLength} = 2
* \texttt{lengthAdjustment} = -2 (\textit{the length of the Length field})
* \texttt{initialBytesToStrip} = 0

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

* 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" |
* +----------+----------+----------------+      +----------+----------+----------------+

* 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>

* 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 <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>initialBytesToSkip</tt> for <tt>initialBytesToStrip</tt>.

* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------+----------+----------------+      +----------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------------+
* </pre>

* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3
* initialBytesToStrip = 3

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

* @see LengthFieldPrepender

Found in path(s):
* /opt/cola/permits/1345091957_1655309079.3811572/0/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/1345091957_1655309079.3811572/0/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1345091957_1655309079.3811572/0/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/compression/Crc32c.java

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* /opt/cola/permits/1345091957_1655309079.3811572/0/netty-codec-4-1-77-final-sources-1- jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1345091957_1655309079.3811572/0/netty-codec-4-1-77-final-sources-1- jar/io/netty/handler/codec/DefaultHeadersImpl.java
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 * 
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 */
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* /opt/cola/permits/1345091957_1655309079.38115720/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1345091957_1655309079.38115720/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1345091957_1655309079.38115720/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1345091957_1655309079.38115720/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/DecompressionException.java
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* /opt/cola/permits/1345091957_1655309079.38115720/netty-codec-4-1-77-final-sources-1.jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1345091957_1655309079.38115720/netty-codec-4-1-77-final-sources-1
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* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/ManifestEntry.java
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* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/BundleObserver.java

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* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/BundleURLScanner.java
* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/BundleURLEntryScanner.java
* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/BundleScanner.java
* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/BundleEntryScanner.java
* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-jar/org/ops4j/pax/swissbox/extender/BundleWatcher.java

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  jar/org/ops4j/pax/swissbox/extender/BundleManifestScanner.java
* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-
  jar/org/ops4j/pax/swissbox/extender/RegexKeyManifestFilter.java
* /opt/cola/permits/1269651956_1644566042.43/0/pax-swissbox-extender-1-8-3-sources-
  jar/org/ops4j/pax/swissbox/extender/ManifestFilter.java

1.364 netty-tcnative-boringssl-static
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* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tcnative/Library.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-Document-URL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=mac osx;;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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

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1.366 nats 0.7.3

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1.367 perl 5.30.0 9ubuntu0.2

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* /opt/cola/permits/1345397370_1655337727.9924/0/netty-codec-dns-4-1-77-final-sources-1.jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.393 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

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) {
/**
 * 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;
}

/**
 * An {link net.sf.ehcache.store.ElementValueComparator} which handles copy on read
 */

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));
    }
}

return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
}
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 Ijacomet
 */
class CopyingBruteForceSource implements BruteForceSource {

    private final BruteForceSource delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    /**
     * Construct this CopyingBruteForceSource with the given delegate and the 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);
    }
}
public Searchable getSearchable() {
    return delegate.getSearchable();
}

public Element transformForIndexing(Element element) {
    return copyStrategyHandler.copyElementForReadIfNeeded(element);
}

/**
 * Wrapping Iterable holding the delegate Iterable and the [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 boolean hasNext() {
    return delegate.hasNext();
}

@Override
public Element next() {
    return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
}
@Override
public void remove() {
    delegate.remove();
}
}
}

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* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-
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* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/package-info.java
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* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/Epoll.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io.netty/channel/epoll/EpollTcpInfo.java

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  jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-
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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/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
* /opt/cola/permits/1345501624_1655357189.624495/0/netty-transport-classes-epoll-4-1-77-final-sources-1-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
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- javaee_web_services_1_3.xsd
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- web-common_3_0.xsd
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- Wichert Akkerman, 2012/02/02

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

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

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

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

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c-a-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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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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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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<th>Owner</th>
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java

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* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
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* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java

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  jar/io/netty/resolver/dns/InflightNameResolver.java
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  jar/io/netty/resolver/dns/NoopDnsCache.java
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  jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
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  jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-
  jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-
  jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /opt/cola/permits/1166659830_1621461463.74/0/netty-resolver-dns-4-1-52-final-sources-
  jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
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# Contributions to the urllib3 project

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

## Contributors

In chronological order:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

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

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

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vending

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

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

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1.410 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

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_

.. _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
Classifier: License :: OSI Approved :: Apache Software License
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

1.411 cryptography 37.0.2
1.411.1 Available under license :

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1.412 maven-resolver-impl 1.3.1

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Found in path(s):
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java

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  jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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* /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/PemPrivateKey.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/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /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
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jar/io/netty/handler/timeout/IdleStateHandler.java
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jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
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jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/logging/LogLevel.java
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jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/package-info.java
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jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
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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-
jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
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1.423 python-pip 20.2.4

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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

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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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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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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History

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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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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
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and what the program that uses the Library does.

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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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from a designated place, offer equivalent access to copy the above
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materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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".)

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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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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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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

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

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jar/io/netty/handler/spdy/SpdyWebSocketFrameEncoder.java
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  jar/io/netty/handler/codec/http/CookieEncoder.java
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  jar/io/netty/handler/codec/http/CookieDecoder.java
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jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
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* /opt/cola/permits/1345501636_1655357191.6152105/0/netty-codec-http-4-1-77-final-sources-1-
jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
* /opt/cola/permits/1345501636_1655357191.6152105/0/netty-codec-http-4-1-77-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.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

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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

------

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

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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1.435 apache-karaf-package-core 4.2.9

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1.436 joda-time 2.9.7
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1.438 attr 2.5.1-r0

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*/
/**
* Used to pass along the CDI BeanManager, if any, to be used.
* According to JPA, strictly, the BeanManager should be passed in
* at boot-time and be ready for use at that time. However not all
* environments can do this (WildFly e.g.). To accommodate such
* environments, Hibernate provides 2 options:
* *
* * a proprietary CDI extension SPI (that we have proposed to
* the CDI spec group as a standard option) that can be used
* to provide delayed BeanManager access. To use this solution,
* the reference passed as the BeanManager during bootstrap
* should be typed as [@link ExtendedBeanManager]
* * delayed access to the BeanManager reference. Here, Hibernate
* will not access the reference passed as the BeanManager during
* bootstrap until it is first needed. Note however that this has
* the effect of delaying any deployment problems until after
* bootstrapping.
*
This setting is used to configure Hibernate ORM’s access to
the BeanManager (either directly or via @link ExtendedBeanManager)).

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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/hibernate/boot/model/convert/spi/ConverterDescriptor.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/hibernate/resource/beans/container/internal/NotYetReadyException.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/hibernate/resource/beans/spi/ManagedBeanRegistryInitiator.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/hibernate/boot/model/convert/internal/InstanceBasedConverterDescriptor.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/hibernate/cache/cfg/internal/NaturalIdDataCachingConfigImpl.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/hibernate/cache/spi/support/NaturalIdTransactionalAccess.java

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 */
/**
 * JTA platform implementation intended for use with WebSphere Application Server (WAS).
 *<p/>
 * WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
 * Instead, for common transaction-related tasks users must utilize a proprietary API known as
 ExtendedJTATransaction.
 *<p/>
 * Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon<ul>
 * <li>WAS version</li>
 * <li>the WAS container in which Hibernate will be utilized</li>
 * </ul>
 *<p/>
 * This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
 *
 * @author Gavin King
 * @author <a href="mailto:jesper@udby.com">Jesper Udby</a>
 * @author Steve Ebersole
 */

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     */
    package org.hibernate.graph.internal.parse;
}

/**
 * Antlr grammar describing the Hibernate EntityGraph Language.
 */
class GeneratedGraphParser extends Parser;

options {
    // call the vocabulary (H)ibernate (E)ntity(G)raph (L)anguage
    exportVocab=HEGL;

    k = 2;

    //buildAST = true;
    buildAST = false;
}
/**
   // semantic actions/callouts

   protected void startAttribute(Token attributeName) {
   }

   protected void startQualifiedAttribute(Token attributeName, Token qualifier) {
   }

   protected void finishAttribute() {
   }

   protected void startSubGraph(Token subType) {
   }

   protected void finishSubGraph() {
   }

   graph
   : attributeNode (COMMA attributeNode)*
   ;

   attributeNode
   : attributePath (subGraph)? [ finishAttribute(); ]
   ;

   attributePath
   : path:NAME (DOT qualifier:NAME)? {
     if ( qualifier == null ) {
       startAttribute( path );
     }
     else {
       startQualifiedAttribute( path, qualifier );
     }
   }

   subGraph
   : LPAREN (subtype:NAME COLON)? [ startSubGraph( subtype ); ] attributeNode (COMMA attributeNode )* RPAREN {
     finishSubGraph();
   }
// **** LEXER ******************************************************************
/**
 * Lexer for the Hibernate EntityGraph Language grammar
 */
class GraphLexer extends Lexer;

options {
   // call the vocabulary (H)ibernate (E)ntity(G)raph (L)anguage
   exportVocab=HEGL;

   k = 2;

   // Allow any char but \uffff (16 bit -1, ANTLR's EOF character)
   charVocabulary = '\u0000'..'ufffe';

caseSensitive = false;
testLiterals = false;
}

COLON: ':';

COMMA: ';';

DOT: '.';

LPAREN: '(';

RPAREN: ')';

WHITESPACE:
   (   ' ' |
        \t |
        '\r' '\n' { newline(); } |
        '\n'  { newline(); } |
        '\r'  { newline(); } )
   { setType(Token.SKIP); } //ignore this token

/**
 * In this grammar, basically any string since we (atm) have no keywords
 */
NAME:
   NAME_START ( NAME_CONTINUATION )*

protected
NAME_START
    : '_'
    | 'S'
    | 'a'..'z'
// HHH-558: Allow unicode chars in identifiers
    | '\u0080'..'ufffe'
;
protected
NAME_CONTINUATION
    : NAME_START
    | '0'..'9'
;
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/**
* Subclass used to simply instantiation of singular attributes representing an entity's
* version.
*/
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#
org.hibernate.jpa.HibernatePersistenceProvider

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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/order-by.g
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//"proprietary" methods is better (this class is "proprietary" too).

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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByFragmentRendererTokenTypes.java

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Found in path(s):
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/dialect/hint/IndexQueryHintHandler.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/entity/plan/LegacyBatchingEntityLoaderBuilder.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/criterion/Distinct.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/spi/Fetch.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/type/descriptor/sql/BasicExtractor.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/event/internal/DefaultSaveEventListener.java

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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/MetadataSources.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/jaxb/internal/JaxpSourceXmlSource.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/MetadataSources.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/engine/query/spi/AbstractParameterDescriptor.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/event/internal/EventUtil.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar/org/hibernate/criterion/Disjunction.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar/org/hibernate/hql/internal/ast/HqlASTFactory.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/BatchLoadSizingStrategy.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/plan/exec/process/internal/EntityReferenceInitializerImpl.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/tool/schema/extract/internal/SequenceInformationExtractorTimesTenDatabaseImpl.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/tool/schema/extract/internal/SequenceInformationExtractorCUBRIDDatabaseImpl.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/tool/schema/ast/SqlScriptParser.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/boot/model/naming/ImplicitIndexColumnNameSource.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/boot/MetadataSources.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/boot/bytecode/enhance/internal/bytebuddy/BiDirectionalAssociationHandler.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-org/hibernate/exception/spi/SQLExceptionConverterFactory.java
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This page contains a list of files and directories related to Hibernate, a popular open-source ORM (Object-Relational Mapping) tool used for Java applications. The paths provided include:

- `hibernate/query/criteria/internal/predicate/ExistsPredicate.java`
- `hibernate-boot/model/source/spi/PluralAttributeElementSourceBasic.java`
- `hibernate-dialect/lock/PessimisticWriteUpdateLockingStrategy.java`
- `hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/type/descriptor/sql/NVarcharTypeDescriptor.java`
- `hibernate-sql/HSQLCaseFragment.java`
- `hibernate-dialect/pagination/LegacyLimitHandler.java`
- `hibernate/cache/RegionFactory.java`
- `hibernate/type/descriptor/sql/NCharTypeDescriptor.java`
- `hibernate/loader/plan/exec/process/internal/EntityReturnReader.java`
- `hibernate/service/spi/SessionFactoryServiceRegistry.java`
- `hibernate/cfg/internal/NullableDiscriminatorColumnSecondPass.java`
- `hibernate/id/enhanced/OptimizerFactory.java`
- `hibernate/loader/plan/exec/process/internal/EntityReturnReader.java`
- `hibernate/init/SqlSessionLocalizerFactory.java`

These files are part of the Hibernate Core package, which provides the core functionality for mapping Java objects to relational database tables and vice versa.
5-6-9-final-sources-jar/org/hibernate/mapping/MetadataSource.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/transform/ToListResultTransformer.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/IdentifierLoadAccess.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/tuple/PojoInstantiator.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/event/internal/DefaultInitializeCollectionEventListener.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/bootstrap/model/source/spi/ColumnsAndFormulasSourceContainer.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/event/spi/FlushEntityEvent.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/plan/exec/internal/AbstractLoadQueryDetails.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/dialect/function/SQLFunctionTemplate.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/type/descriptor/java/PrimitiveByteArrayTypeDescriptor.java

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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/dialect/DB2400Dialect.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/hql/spi/FilterTranslator.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/sql/SimpleSelect.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/cfg/ComponentPropertyHolder.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/archive/scan/spi/NonClassFileArchiveEntryHandler.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/internal/log/UnsupportedLogger.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/query/criteria/internal/path/AbstractFromImpl.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/InvalidMappingException.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/event/spi/PostDeleteEvent.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/annotations/SortNatural.java

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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/tuple/ValueGenerator.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/entity/CollectionElementLoader.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/sql/QuerySelect.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/loader/custom/ConstructorReturn.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/hql/spi/id/local/PreparationContextImpl.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/spi/AbstractDelegatingSessionFactoryBuilder.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/bootstrap/hbm/BasicAttributePropertySource.java
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5-6-9-final-sources-jar/org/hibernate/tuple/IdentifierAttribute.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/type/descriptor/java/MutableMutabilityPlan.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/service/ServiceRegistry.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/hql/internal/ast/ASTQueryTranslatorFactory.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/property/access/spi/PropertyAccess.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/hql/internal/NameGenerator.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/model/TypeContributions.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/tuple/component/AbstractComponentTuplizer.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/bootstrap/TableSpecificationSource.java
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* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/type/descriptor/converter/AttributeConverterMutabilityPlanImpl.java
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/boot/model/naming/ImplicitForeignKeyNameSource.java
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/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/

/**
 * A hash table supporting full concurrency of retrievals and
 * adjustable expected concurrency for updates. This class obeys the
 * same functional specification as {link java.util.Hashtable}, and
 * includes versions of methods corresponding to each method of
 * {tt}Hashtable{tt}. However, even though all operations are
 * thread-safe, retrieval operations do {em}not{em} entail locking,
 * and there is {em}not{em} any support for locking the entire table
 * in a way that prevents all access. This class is fully
 * interoperable with {tt}Hashtable{tt} in programs that rely on its
 * thread safety but not on its synchronization details.
 * </p>
 * </p> Retrieval operations (including {tt}get{tt}) generally do not
 * block, so may overlap with update operations (including
 * {tt}put{tt} and {tt}remove{tt}). Retrievals reflect the results
 * of the most recently {em}completed{em} update operations holding
 * upon their onset. For aggregate operations such as {tt}putAll{tt}
 * and {tt}clear{tt}, concurrent retrievals may reflect insertion or
 * removal of only some entries. Similarly, Iterators and
 * Enumerations return elements reflecting the state of the hash table
 * at some point at or since the creation of the iterator/enumeration.
 * They do {em}not{em} throw {link java.util.ConcurrentModificationException{tt}}.
 * However, iterators are designed to be used by only one thread at a time.
 * </p>
 * </p> The allowed concurrency among update operations is guided by
 * the optional {tt}concurrencyLevel{tt} constructor argument
 */

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* (default `<tt>16</tt>`, which is used as a hint for internal sizing. The * table is internally partitioned to try to permit the indicated * number of concurrent updates without contention. Because placement * in hash tables is essentially random, the actual concurrency will * vary. Ideally, you should choose a value to accommodate as many * threads as will ever concurrently modify the table. Using a * significantly higher value than you need can waste space and time, * and a significantly lower value can lead to thread contention. But * overestimates and underestimates within an order of magnitude do * not usually have much noticeable impact. A value of one is * appropriate when it is known that only one thread will modify and * all others will only read. Also, resizing this or any other kind of * hash table is a relatively slow operation, so, when possible, it is * a good idea to provide estimates of expected table sizes in * constructors.

* `<p/>
*
* `<p>`This class and its views and iterators implement all of the * `<em>`optional</em>` methods of the `{@link Map}` and `{@link Iterator}` * interfaces.
* `<p/>
*
* `<p>`This class is copied from Infinispan, and was originally written * by Doug Lea with assistance from members of JCP JSR-166 Expert Group and * released to the public domain, as explained at * http://creativecommons.org/licenses/publicdomain</p>
* `<p/>
*
* `<p>`Like `{@link java.util.Hashtable}` but unlike `{@link HashMap}`, this class * does `<em>`not</em>` allow `<tt>null</tt>` to be used as a key or value. *
*
* `{@param <K> the type of keys maintained by this map * @{param <V> the type of mapped values *
*
* @{author Doug Lea
*/

Found in path(s):
* /opt/cola/permits/1334785300_1657183635.1001236/0/hibernate-core-5-6-9-final-sources-jar-zip/hibernate-core-5-6-9-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java

**1.443 pax-web-runtime 7.2.16**

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Pax Web

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org.eclipse.jetty.toolchain:jetty-schemas

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

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Full name: Thomas Becker
E-Mail: thomas.becker00@googlemail.com
Mailing Address:

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Version: GnuPG v1.4.10 (GNU/Linux)
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Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Version: GnuPG v1.4.1 (Darwin)
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Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
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Signature:

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Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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*java.sun.security.ssl

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

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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
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org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Found in path(s):
* /opt/cola/permits/1092530439_1602547158.46/0/pax-jdbc-derby-1-4-4-sources-jar/META-INF/maven/org.ops4j.pax.jdbc/pax-jdbc-derby/pom.xml

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/*
1.482 jinja2 2.11.2

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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

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

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

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
```
Open Source Used In Crosswork Optimization Engine 4.0.0

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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* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

=====

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

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

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

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


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

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
        <ul>
            {% for user in users %}
                <li><a href="{{ user.url }}">{{ user.username }}</a></li>
            {% endfor %}
        </ul>
Links
-----
- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.2-1.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

1.483 jetty 9.4.48.v20220622
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------

Eclipse

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

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

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

------

Oracle

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

------

OW2

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

-----
Apache

The following artifacts are ASL2 licensed.

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

-----
MortBay

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

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.484 effective-tld-names UNKNOWN

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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

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MortBay

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.489 gmp 6.2.0+dfsg-4

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Version 3, 29 June 2007

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   * /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-
     jar/org/jline/utils/StyleResolver.java
   * /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-
     jar/org/jline/utils/NonBlockingInputStreamImpl.java
   * /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-
     jar/org/jline/terminal/impl/LineDisciplineTerminal.java
   * /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-
     jar/org/jline/terms/BSD-3-Clause
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* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/NonBlocking.java

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* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/package-info.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/ShutdownHooks.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/DiffHelper.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Log.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Signals.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Cursor.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/package-info.java
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maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
grey85
grey89
grey93

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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
cceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
en_a_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm, ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kebt, KB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcr, @6
key_cetab, kctab, kt
key_dc, kdeh1, kD
key_dl, kdl1, kL
key_down, kcu1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos, ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
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key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
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key_f42, kf42, FW
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key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48,Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58, Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khelp, %1
key_home, khome, kh
key_ic, kich, kI
key_il, kil, kA
key_left, kcub, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin, smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgt, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispC, S1
derbit_image_region, endbi, Yy
enter_pc_charset_mode, smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfXL, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smgLR, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, XI
enter_low_hl_mode, elohtm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/WriterOutputStream.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/PumpReader.java
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* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/AttributedCharSequence.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/AbstractPty.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/TerminalBuilder.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Status.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/InfoCmp.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/spi/JnaSupport.java
* /opt/ws_local/PERMITS_SQL/1062753152_1592843647.6/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/spi/JansiSupport.java

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* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/helpers/NOPMDCAdapter.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/IMarkerFactory.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/helpers/FormattingTuple.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/helpers/BasicMDCAdapter.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sourcesjar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/Util.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-

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 *
 * @param classVisitor a { @link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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 * Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
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 * 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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 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
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 * 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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This package was debianized by Marc-Andre Lureau
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* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/ChannelPoolHandler.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/ChannelHealthChecker.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/pool/MaxMessagesRecvByteBufAllocator.java
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* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-jar/io/netty/channel/pool/DefaultMaxBytesRecvByteBufAllocator.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].
 *
Sub-types

{@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:

- {@link ChannelInboundHandler} to handle inbound I/O events, and
- {@link ChannelOutboundHandler} to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
- {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and
- {@link ChannelDuplexHandler} to handle both inbound and outbound events.

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;
        }
```
Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

```
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {

    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }

    public interface Message {
        // your methods here
    }

    {@code @Sharable}
    public class DataServerHandler extends {@link 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) {
            @link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
            if (message instanceof LoginMessage) {
                authenticate((LoginMessage) o);
            } else (message instanceof GetDataMessage) {
                if (<b>loggedIn</b>) {
                    ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
                } else {
                    fail();
                }
            }
        }
    }
```
* `<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 `ChannelHandlerContext`, you can add the same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends `ChannelInitializer`<`Channel`> {
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*     <code>@Override</code>
*     public void initChannel(`Channel` channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
* <h4>The `@Sharable` annotation</h4>
* In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.
* <p>
* If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like `<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
* <p>
* Additional resources worth reading
* <p>
* 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/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1266038272_1643973996.4/0/netty-transport-4-1-53-final-sources-
jar/io/netty/channel/ChannelFactory.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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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

-----

Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

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

-----

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

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The 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.

1.511 artemis-native 1.5.5.jbossorg-008

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1.512 libssh2 1.9.0_DEV

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1.515 open-ldap 2.4.58-r0

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
  ; CHECK-LABEL: PR41535:
  ; CHECK:       // %bb.0:
  ; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
  ; CHECK-NEXT:    mov v0.d[1], v0.d[0]
  ; CHECK-NEXT:    ret
  %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
  %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
  %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
  ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
  BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %Sl163, i8* %0
br label %CF248
}

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; RUN: FileCheck --check-prefix=WARN --allow-empty %s < %t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked scatters operating on scalable vectors that are
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv4i32()
; CHECK: call void @llvm.masked.scatter.nxv4i32
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, <vscale x 4 x i1> %masks) {
call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 0, <vscale x 4 x i1> %masks)
ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f64()
; CHECK: call void @llvm.masked.scatter.nxv2f64
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, <vscale x 2 x i1> %masks) {
call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 0, <vscale x 2 x i1> %masks)
ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16()
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <vscale x 2 x i1> %masks) {
%masks) {
    call void @llvm.masked.scatter.nxv2f16(%vscale x 2 x half> %data, %vscale x 2 x half*> %ptrs, i32 0, %vscale x 2 x i1> %masks)
    ret void
}

; Testing that masked scatters operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions.

; CHECK-LABEL: @masked_scatter_v2f32(
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(%2 x float> %data, %2 x float*> %ptrs, %2 x i1> %masks) {
    call void @llvm.masked.scatter.v2f32(%2 x float> %data, %2 x float*> %ptrs, i32 0, %2 x i1> %masks)
    ret void
}

; Testing that masked scatters operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(%4 x i32> %data, %4 x i32*> %ptrs, %4 x i1> %masks) {
    call void @llvm.masked.scatter.v4i32(%4 x i32> %data, %4 x i32*> %ptrs, i32 0, %4 x i1> %masks)
    ret void
}

declare void @llvm.masked.scatter.nxv4i32(%vscale x 4 x i32> %data, %vscale x 4 x i32*> %ptrs, i32 %align, %vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(%vscale x 2 x double> %data, %vscale x 2 x double*> %ptrs, i32 %align, %vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(%vscale x 2 x half> %data, %vscale x 2 x half*> %ptrs, i32 %align, %vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(%2 x float> %data, %2 x float*> %ptrs, i32 %align, %2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(%4 x i32> %data, %4 x i32*> %ptrs, i32 %align, %4 x i1> %masks)
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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s 2>%t | FileCheck %s
; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked gathers operating on scalable vectors that are packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv4i32(
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x i32*> %ld, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) {
  %res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ld, %masks, <vscale x 4 x i32> %passthru)
  ret <vscale x 4 x i32> %res
}

; Testing that masked gathers operating on scalable vectors of FP data
that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f64()
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x double*> %ld, <vscale x 2 x i1> %masks, 
<vscale x 2 x double> %passthru) {
  %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru)
  ret <vscale x 2 x double> %res
}

; Testing that masked gathers operating on scalable vectors of FP data
; that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f16()
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x half*> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru) {
  %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru)
  ret <vscale x 2 x half> %res
}

; Testing that masked gathers operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions.

; CHECK-LABEL: @masked_gather_v2f32()
; CHECK-NOT: @llvm.masked.gather.v2f32()
define <2 x float> @masked_gather_v2f32(<2 x float*> %ld, <2 x i1> %masks, <2 x float> %passthru) {
  %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ld, i32 0, <2 x i1> %masks, <2 x float> %passthru)
  ret <2 x float> %res
}

; Testing that masked gathers operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_gather_v4i32()
; CHECK-NOT: @llvm.masked.gather.v4i32()
define <4 x i32> @masked_gather_v4i32(<4 x i32*> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
  %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
  ret <4 x i32> %res
}

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ptrs, i32 %align, <vscale x 2 x double> %passthru)

declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru)

declare <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ptrs, i32 %align, <2 x i1> %masks, <2 x float> %passthru)

declare <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32> %passthru)

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define void @function1() !dbg !6 {
    ; CHECK-LABEL: @function1()
    ; CHECK-NEXT: entry:
        ; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, [[DBG17:!dbg !.*]]
        ; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[A]], [[META9:metadata !.*]], metadata !DIExpression()), [[DBG17]]
        ; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, [[DBG18:!dbg !.*]]
        ; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[B]], [[META11:metadata !.*]], metadata !DIExpression()), [[DBG18]]
        ; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4, [[DBG19:!dbg !.*]]
        ; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[C]], [[META12:metadata !.*]], metadata !DIExpression()), [[DBG19]]
        ; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]], [[DBG20:!dbg !.*]])
        ; CHECK-NEXT: ret void, [[DBG21:!dbg !.*]]
}

define void @function2() !dbg !27 {
    ; CHECK-LABEL: @function2()
    ; CHECK-NEXT: entry:
        ; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, [[DBG30:!dbg !.*]]
        ; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[A]], [[META24:metadata !.*]], metadata !DIExpression()), [[DBG30]]
        ; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, [[DBG31:!dbg !.*]]
        ; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[B]], [[META25:metadata !.*]], metadata !DIExpression()), [[DBG31]]
        ; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]], [[DBG20:!dbg !.*]])
        ; CHECK-NEXT: ret void, [[DBG21:!dbg !.*]]
}

entry:
%a = alloca i32, align 4, !dbg !35
%b = alloca i32, align 4, !dbg !36
%c = alloca i32, align 4, !dbg !37
store i32 2, i32* %a, align 4, !dbg !38
store i32 3, i32* %b, align 4, !dbg !39
store i32 4, i32* %c, align 4, !dbg !40
%al = load i32, i32* %a, align 4, !dbg !41
call void @llvm.dbg.value(metadata i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
%bl = load i32, i32* %b, align 4, !dbg !42
call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
%cl = load i32, i32* %c, align 4, !dbg !43
call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]]), !dbg !43
ret void, !dbg !44
}
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; NOTE: Assertions have been autogenerated by utils/update_ltc_test_checks.py
; RUN: llc -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking %s
; D31946
; CHECK: ret
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

; NOTE: Assertions have been autogenerated by utils/update_ltc_test_checks.py
; RUN: llc -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rbx
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: subq $32, %rsp

; NOTE: Assertions have been autogenerated by utils/update_ltc_test_checks.py
; RUN: llc -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
define fp128 @TestFabs(fp128 %a) {
  ; CHECK-LABEL: TestFabs:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT: retq
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  ; CHECK-LABEL: TestCopysign:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: andps {{.*}}(%rip), %xmm0
  ; CHECK-NEXT: retq
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  ; CHECK-LABEL: TestFneg:
  ; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    movaps %xmm0, %xmm1
; CHECK-NEXT:    callq __multf3
; CHECK-NEXT:    xorps ([.*])(%rip), %xmm0
; CHECK-NEXT:    popq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq

%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res

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; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() { #0
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
CHECK: foo_i8
CHECK-DAG: %[[C1:const[0-9]？]] = bitcast i32 805874720 to i32
CHECK-DAG: %[[C2:const[0-9]？]] = bitcast i32 805874688 to i32
CHECK-DAG: %[[C3:const[0-9]？]] = bitcast i32 805873720 to i32
CHECK-DAG: %[[C4:const[0-9]？]] = bitcast i32 805873688 to i32
CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
CHECK-NEXT: %1 = load volatile i8, i8* %0
CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
CHECK-NEXT: %3 = load volatile i8, i8* %2
CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
CHECK-NEXT: %5 = load volatile i8, i8* %4
CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
CHECK-NEXT: %7 = load volatile i8, i8* %6
CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
CHECK-NEXT: %9 = load volatile i8, i8* %8
CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
CHECK-NEXT: store i8 %9, i8* %10
CHECK-NEXT: %11 = load volatile i8, i8* %11
CHECK-NEXT: %12 = inttoptr i32 %[[M4]] to i8*
CHECK-NEXT: store i8 %7, i8* %11
CHECK-NEXT: %13 = inttoptr i32 %[[C3]] to i8*
CHECK-NEXT: store i8 %5, i8* %12
CHECK-NEXT: %14 = inttoptr i32 %[[C4]] to i8*
CHECK-NEXT: store i8 %11, i8** @goo

@goo = global i8* undef
define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttopr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttopr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttopr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttopr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttopr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %8 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M5:const_mat[0-9]??]] = add i32 %[[C1]], 10
; CHECK-NEXT: %10 = inttoptr i32 %[[M5]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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de Minimis description of such content.
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %arg,
8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {[^@]+}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (8 x i64)* [[ARG:%.*]], 8 x i64> [[ARG1:VAL%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1:VAL]], 8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, 8 x i64>* %arg1
store <8 x i64> %tmp, 8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %arg) #0 {
; CHECK-LABEL: define {[^@]+}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (8 x i64)* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
// CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
// CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
// CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
// CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
// CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
// CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
// CHECK-NEXT: ret void

bb:
%tmp = alloc <8 x i64>, align 32
%tmp2 = alloc <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32


; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    ; CHECK-LABEL: define 
    ; CHECK-SAME: (<8 x i64>* 
    ; CHECK-NEXT:  bb:
    ; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL:%.*]], <8 x i64> [[ARG]]
    ; CHECK-NEXT:    ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
    ; CHECK-LABEL: define 
    ; CHECK-SAME: (<8 x i64>* 
    ; CHECK-NEXT:  bb:
    ; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT:    [[TMP.VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
    ; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP.VAL]])
    ; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT:    ret void
    
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    %tmp2 = load <8 x i64>, <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
open source used in crosswork optimization engine 4.0.0  3531

ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define [[[^@]+]] @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define [[[^@]+]] @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
    %tmp2 = alloc <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
    %tmp2 = alloc <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

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define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
    ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* %arg, align 2
    ; CHECK-NEXT: ret void
  bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; If the arguments are scalar, its ok to promote.
define i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
  ; CHECK-LABEL: define
  {[^@]+} @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
  ; CHECK-NEXT: [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
  ; CHECK-NEXT: ret i32 [[C]]
  %A = load i32, i32* %X
  %B = load i32, i32* %Y
  %C = add i32 %A, %B
  ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
  ; CHECK-LABEL: define
  {[^@]+} @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (i32 [[B:%.*]])
  ; CHECK-NEXT: [[A:%.*]] = alloca i32
  ; CHECK-NEXT: store i32 1, i32* [[A]]
  ; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define
    ; CHECK-SAME: (i32 [[X:%.*]], i32 [[Y:%.*]])
    ; CHECK-NEXT:  [[Z:%.*]] = add i32 [[X]], [[Y]]
    ; CHECK-NEXT:  ret i32 [[Z]]
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %Z = add i32 %A, %B
    ret i32 %Z
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define (i32 [[B:%.*]])
    ; CHECK-SAME: (i32 [[B:%.*]])
    ; CHECK-NEXT:  [[A:%.*]] = alloca i32
    ; CHECK-NEXT:  store i32 1, i32* [[A]]
    ; CHECK-NEXT:  [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT:  [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT:  [[C:%.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT:  ret i32 [[C]]
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
    ret i32 %C
}

; Function Attrs: argnonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5
attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpadddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc -s -mtriple=x86_64-unknown-unknown -mattr=avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define dso_local void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define dso_local void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: add512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define dso_local void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: avg_v64i8_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
  ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
  ; CHECK-NEXT:    vpavgb (%rdi), %ymm0, %ymm0
}
define dso_local void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, <64 x i32> %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %7 to <64 x i8>
    store <64 x i8> %7, <64 x i8>* undef, align 4
    ret void
}
define dso_local void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define dso_local void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
define dso_local void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: psubus_64i8_max_256:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
 ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
 ; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
 ; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
 ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define dso_local void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: psubus_64i8_max_512:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
 ; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
 ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define dso_local i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: _Z9test_charPcS_i_256:
 ; CHECK:    # %bb.0: # %entry
 ; CHECK-NEXT: movl %edx, %eax
 ; CHECK-NEXT: vxor %xmm0, %xmm0, %xmm0

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
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define dso_local i32 @_Z9test_charPCSi_512(ii8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
addq $32, %rcx
cmpq %rcx, %rax
jne .LBB9_1
# %bb.2: # %middle.block
vpadd %zmm0, %zmm1, %zmm0
vextracti64x4 $1, %zmm0, %ymm1
vpadd %zmm1, %zmm0, %zmm0
vextracti128 $1, %ymm0, %xmm1
vpadd %xmm1, %xmm0, %xmm0
vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
vpadd %xmm1, %xmm0, %xmm0
vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
vmovd %xmm0, %eax
vzeroupper
retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19 %13 = extractelement <32 x i32> %bin.rdx20, i32 0 ret i32 %13

@a = dso_local global [1024 x i8] zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16

define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %ymm2
; CHECK-NEXT:    vpsadbwb+1024(%rax), %ymm2, %ymm2
; CHECK-NEXT:    vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
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; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
}
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi i64 [ 0, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 define dso_local i32 @sad_16i8_512() "min-legal-vector-width"="512" { ; CHECK-LABEL: sad_16i8_512: ; CHECK: # %bb.0: # %entry ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00

tot %12}
Open Source Used in Crosswork Optimization Engine 4.0.0  3552

; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1:  # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:  vpsadbwb b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:  vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB11_1
; CHECK-NEXT:  # %bb.2:  # %middle.block
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{...#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{...#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitializer, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
    %10 = add nsw <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:
    %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %10, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef

%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef

%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef

%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define dso_local void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) “min-legal-vector-width”=”256” {
; CHECK-LABEL: sbto16f32_256:
; CHECK:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define dso_local void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) “min-legal-vector-width”=”512” {
; CHECK-LABEL: sbto16f32_512:
; CHECK:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

Open Source Used In Crosswork Optimization Engine 4.0.0 3553
define dso_local void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: cvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: cvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: cvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: cvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define dso_local void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: cvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: cvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define dso_local void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:     # %bb.0:
define dso_local void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {  
; CHECK-LABEL: ubto16f32_512:  
; CHECK:       # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: vpmovm2d %k0, %zmm0  
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0  
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0  
; CHECK-NEXT: vmovaps %zmm0, (%rdi)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%mask = icmp slt <16 x i16> %a, zeroinitializer  
%1 = uitofp <16 x i1> %mask to <16 x float>  
store <16 x float> %1, <16 x float>* %res  
ret void}

define dso_local void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
; CHECK-LABEL: ubto16f64_256:  
; CHECK:       # %bb.0:  
; CHECK-NEXT: vpmovw2m %ymm0, %k0  
; CHECK-NEXT: kshiftrw $8, %k0, %k1  
; CHECK-NEXT: vpmovm2d %k1, %ymm0  
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0  
; CHECK-NEXT: vcvtdq2pd %ymm0, %ymm0  
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0  
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0  
; CHECK-NEXT: vpmovm2d %k0, %ymm2  
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2  
; CHECK-NEXT: vcvtdq2pd %ymm2, %ymm3  
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2

Open Source Used In Crosswork Optimization Engine 4.0.0 3555
define dso_local void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
    retq
}

def @test_16f32toub_512(%ptr: <16 x float>, %passthru: <16 x i16>) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32toub_512:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT: vpsld $31, %zmm1, %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k1
  ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT: retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

def @test_16f32tosb_256(%ptr: <16 x float>, %passthru: <16 x i16>) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32tosb_256:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k0
  ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT: vpmovd2m %ymm1, %k1
  ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT: retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

def @test_16f32tosb_512(%ptr: <16 x float>, %passthru: <16 x i16>) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32tosb_512:
  ; CHECK:    # %bb.0:
  ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: vcvttps2dq 32(%rdi), %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT: vmovdqu16 %zmm0, %zmm0 {%k1} {z}
  ; CHECK-NEXT: retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptosi <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}
define dso_local void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { 
; CHECK-AVX512-LABEL: mul256: 
; CHECK-AVX512: # %bb.0: 
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0 
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1 
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2 
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3 
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#*+}} ymm4 = 
ymm3[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23] 
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#*+}} ymm5 = 
ymm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23] 
; CHECK-AVX512-NEXT: vpmullw %ymm4, %ymm5, %ymm4 
; CHECK-AVX512-NEXT: vpmullw %ymm5, %ymm5, %ymm4 
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4 
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1 
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#*+}} ymm3 = 
ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23] 
; CHECK-AVX512-NEXT: vzerooupper 
; CHECK-AVX512-NEXT: retq 
; 
; CHECK-VBMI-LABEL: mul256: 
; CHECK-VBMI: # %bb.0: 
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0 
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1 
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2 
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3 
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#*+}} ymm4 = 
ymm2[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23] 
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1 
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm4, %ymm3 
; CHECK-VBMI-NEXT: vpand %ymm5, %ymm3, %ymm3 
; CHECK-VBMI-NEXT: vpand %ymm5, %ymm1, %ymm1 
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#*+}} ymm3 = 
ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23] 
; CHECK-VBMI-NEXT: vzerooupper 
}
CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
CHECK-VBMI-NEXT:  vpnullw %ymm4, %ymm5, %ymm4
CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm3 = [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
CHECK-VBMI-NEXT:  vmovdqa %ymm0, (%rdx)
CHECK-VBMI-NEXT:  vmovdqa %ymm1, 32(%rdx)
CHECK-VBMI-NEXT:  vzeroupper
retq
This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {  
; CHECK-LABEL: mload_v4i32:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vpptestnmd %xmm0, %xmm0, %k1  
; CHECK-NEXT: vpbldenmd (%rdi), %xmm1, %xmm0 {%k1}  
; CHECK-NEXT: retq  
%mask = icmp eq <4 x i32> %trigger, zero initializer  
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)  
ret <4 x i32> %res  
}declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i32:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
; CHECK-NEXT: vpmovq %ymm0, %xmm0  
; CHECK-NEXT: vpmovq %ymm1, %xmm1  
; CHECK-NEXT: vpmovq %ymm2, %xmm2  
; CHECK-NEXT: vpmovq %ymm3, %xmm3  
; CHECK-NEXT: vinserti128 $1, %ymm1, %ymm0, %ymm0  
; CHECK-NEXT: vpmovq %ymm2, %xmm2  
; CHECK-NEXT: vpmovq %ymm3, %xmm3  
; CHECK-NEXT: vinserti128 $1, %ymm2, %ymm1, %ymm1  
; CHECK-NEXT: retq  
%a = load <16 x i64>, <16 x i64>* %x  
%b = trunc <16 x i64> %a to <16 x i32>  
ret <16 x i32> %b  
}

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i8:  
; CHECK:    # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2  
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3  
; CHECK-NEXT: vpmovq %ymm0, %xmm0  
; CHECK-NEXT: vpmovq %ymm1, %xmm1  
; CHECK-NEXT: vpmovq %ymm2, %xmm2  
; CHECK-NEXT: vpmovq %ymm3, %xmm3  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]  
; CHECK-NEXT: vpmovq %ymm1, %xmm1  
; CHECK-NEXT: vpmovq %ymm0, %xmm0  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]  
; CHECK-NEXT: vpmovq %ymm0, %xmm0  
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm2[0]  
; CHECK-NEXT: vzeroupper
define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} %xmm0 = %xmm0[0],%xmm1[0]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %x
    %b = trunc <16 x i64> %a to <16 x i8>
    ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovq %ymm0, %xmm0
    ; CHECK-NEXT: vpmovq %ymm1, %xmm1
    ; CHECK-NEXT: vpunpckldq {{.*#+}} %xmm0 = %xmm0[0],%xmm1[0],%xmm0[1],%xmm1[1]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i8>
    ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i16:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovqw %ymm0, %xmm0
    ; CHECK-NEXT: vpmovqw %ymm1, %xmm1
    ; CHECK-NEXT: vpunpcklqdq {{.*#+}} %xmm0 = %xmm0[0],%xmm1[0]
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i16>
    ret <8 x i16> %b
}
define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm0
    ; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm1
    ; CHECK-NEXT: vpckusdw %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
    %c = trunc <8 x i64> %b to <8 x i32>
    ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
    ; CHECK-NEXT: vpermiv 32(%rdi), %ymm1, %ymm0
    ; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %x
    %b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
    %c = trunc <16 x i32> %b to <16 x i16>
    ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
    ; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1
    ; CHECK-AVX512-NEXT: vpckuswb %ymm0, %ymm1, %ymm0
    ; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-AVX512-NEXT: retq
    ;
    ; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
    ; CHECK-VBMI:       # %bb.0:
    ; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-VBMI-NEXT: vmovdqa [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
    ; CHECK-VBMI-NEXT: vpermib 32(%rdi), %ymm1, %ymm0
    ; CHECK-VBMI-NEXT: retq
    %a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" { }
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT: vpsraq $48, 32(%rdi), %ymm0
; CHECK-NEXT: vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT: vpmovqd %ymm1, %xmm1
; CHECK-NEXT: vpmovqd %ymm0, %xmm0
; CHECK-NEXT: vinserti128 $1, %xmm0, %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" { }
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {.*#+} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" { }
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpckuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq {.*#+} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa {.*#+} ymm0 =


```assembly
define dso_local void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {  
  # %bb.0:
  ; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =  
  ; CHECK-NEXT:  vpmovzxwq {{.*#+}} ymm2 =  
  ; CHECK-NEXT:  vextracti128 %xmm1, %yymm1, %xmm0  
  ; CHECK-NEXT:  vpmovzxwq {{.*#+}} ymm3 =  
  ; CHECK-NEXT:  vpmovzxbq {{.*#+}} ymm0 =  
  ; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)  
  ; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)  
  ; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)  
  ; CHECK-NEXT:  vmovdqa %ymm2, 32(%rdi)  
  ; CHECK-NEXT:  vzeroupper  
  ; CHECK-NEXT:  retq  
%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>  
%c = trunc <32 x i16> %b to <32 x i8>  
ret <32 x i8> %c  
}
```
define dso_local void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i16_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqw %xmm1, %xmm0, %k1
    ; CHECK-NEXT: kshiftrb $4, %k1, %k2
    ; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = sext <16 x i8> %x to <16 x i64>
    store <16 x i64> %a, <16 x i64>* %y
    ret void
}

define dso_local void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i32_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1
    ; CHECK-NEXT: kshiftrb $4, %k1, %k2
    ; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <8 x i64>, <8 x i64>* %p
    %y = load <8 x i64>, <8 x i64>* %q
    %a = icmp eq <8 x i16> %s, %t
    %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
    store <8 x i64> %b, <8 x i64>* %r
    ret void
}
define dso_local void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {  
    %x = load <16 x i32>, <16 x i32>* %p  
    %y = load <16 x i32>, <16 x i32>* %q  
    %a = icmp eq <16 x i8> %s, %t  
    %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y  
    store <16 x i32> %b, <16 x i32>* %r  
    ret void  
}

define dso_local void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {  
    %x = load <16 x i32>, <16 x i32>* %p  
    %y = load <16 x i32>, <16 x i32>* %q  
    %a = icmp eq <16 x i16> %s, %t  
    %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y  
    store <16 x i32> %b, <16 x i32>* %r  
    ret void  
}

define dso_local void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {  
    %x = load <16 x i32>, <16 x i32>* %p  
    %y = load <16 x i32>, <16 x i32>* %q  
    %a = icmp eq <16 x i16> %s, %t  
    %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y  
    store <16 x i32> %b, <16 x i32>* %r  
    ret void  
}
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:   vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:   vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:   vpmovuswb %ymm0, %xmm0
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %b
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    ret <16 x i8> %f
}

define dso_local void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:   vpackusdw 32(%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:   vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT:   vpmovuswb %ymm0, (%rsi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %b
    %d = icmp sgt <16 x i32> %c, zeroinitializer
    %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
    %f = trunc <16 x i32> %e to <16 x i8>
    store <16 x i8> %f, <16 x i8>* %q
    ret void
define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" { 
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: retq
    ret <64 x i1> %x
}

define dso_local void @v64i1_shuffle(<64 x i8> * %x, <64 x i8> * %y) "min-legal-vector-width"="256" { 
    ; CHECK-LABEL: v64i1_shuffle:
    ; CHECK: # %bb.0: # %entry
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm1
    ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
    ; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
    ; CHECK-NEXT: kshiftrd $1, %k0, %k1
    ; CHECK-NEXT: movq $-3, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k2
    ; CHECK-NEXT: kshiftrq $62, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-5, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k2
    ; CHECK-NEXT: kshiftrq $61, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-9, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k2
    ; CHECK-NEXT: kshiftrq $60, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-17, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k2
    ; CHECK-NEXT: kshiftrq $59, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-33, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k2
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $51, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $12, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $50, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $15, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $49, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $14, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $48, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-65537, %rax # imm = 0xFFFEFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $17, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $46, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-131073, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $16, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $45, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-262145, %rax # imm = 0xFFFBFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $19, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $45, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $18, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $44, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1048577, %rax # imm = 0xFFFEEEE
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $21, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $43, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-2097153, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $20, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $42, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-4194305, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $23, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $41, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-8388609, %rax # imm = 0xFF7FFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $22, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $40, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $25, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $39, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $24, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $38, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-67108865, %rax # imm = 0xFBFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftd $27, %k0, %k2
; CHECK-NEXT:    kshifltq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $37, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftd $26, %k0, %k2
; CHECK-NEXT:    kshifltq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $36, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftd $29, %k0, %k2
; CHECK-NEXT:    kshifltq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $35, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftd $28, %k0, %k2
; CHECK-NEXT:    kshifltq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftd $31, %k0, %k2
; CHECK-NEXT:    kshifltq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $33, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:    kshiftd $30, %k0, %k0
; CHECK-NEXT:    kshifltq $63, %k0, %k0
; CHECK-NEXT:    kshiftrq $32, %k0, %k0
; CHECK-NEXT:    korq %k0, %k2, %k0
; CHECK-NEXT:    movabsq $-4294967297, %rax # imm = 0xFFFFFFFEFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k2
; CHECK-NEXT:    kshiftd $1, %k1, %k2
; CHECK-NEXT:    kshifltq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $31, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8589934593, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k1, %k2
; CHECK-NEXT:  kshiftrq $30, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-17179869185, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftr $3, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $29, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-34359738369, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $28, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-68719476737, %rax # imm = 0xFFFFFFFFEFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $27, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-137438953473, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $26, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-274877906945, %rax # imm = 0xFFFFFFFFCFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $25, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-549755813889, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $24, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-1099511627777, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $9, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $23, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-2199023255553, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $8, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $22, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-4398046511105, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $11, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $21, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-8796093022209, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $10, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $20, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-17592186044417, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $13, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $19, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-35184372088833, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $12, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $18, %k2, %k2
; CHECK-NEXT: korq %k2, %k0, %k0
; CHECK-NEXT: movabsq $-70368744177665, %rax # imm = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k0, %k0
; CHECK-NEXT: kshiftrd $15, %k1, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $17, %k2, %k2
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; CHECK-NEXT:  kshiftrq $10, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-18014398509481985, %rax # imm = 0xFFBBBBBBBBBBBBBB
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $23, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $9, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $22, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $8, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $21, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $7, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1441151880758585873, %rax # imm = 0xFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $20, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $6, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $19, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $5, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-576460752303423489, %rax # imm = 0xEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $18, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $4, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $17, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $3, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2305843409531026205, %rax # imm = 0xE7FFFFFFFFFFFFFF
define dso_local void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
;
CHECK-LABEL: cmp_v8i64_sext:
;
CHECK: # %bb.0:
;
CHECK-NEXT: vmovdqa (%rsi), %ymm0
;
CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
;
CHECK-NEXT: vpcmpltq 32(%rdi), %ymm1, %ymm1
;
CHECK-NEXT: vpcmpltq (%rdi), %ymm0, %ymm0
;
CHECK-NEXT: vmovdqa %ymm0, %ymm0, (%rdx)
;
CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
;
CHECK-NEXT: vzeroupper
;
CHECK-NEXT: retq

%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define dso_local void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
;
CHECK-LABEL: cmp_v8i64_zext:
;
CHECK: # %bb.0:
;
CHECK-NEXT: vmovdqa (%rsi), %ymm0
;
CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
;
CHECK-NEXT: vpcmpltq 32(%rdi), %ymm1, %ymm1
;
CHECK-NEXT: vpcmpltq (%rdi), %ymm0, %ymm0
;
CHECK-NEXT: vmovdqa %ymm0, %ymm0, (%rdx)
;
CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
;
CHECK-NEXT: vzeroupper
;
CHECK-NEXT: retq

%x = load <8 x i64>, <8 x i64>* %xptr
%y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = zext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
    ; CHECK-NEXT:    vpsubb %xmm1, %xmm2, %xmm2
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
        %xmm1[0],zero,%xmm1[1],zero,%xmm1[2],zero,%xmm1[3],zero,%xmm1[4],zero,%xmm1[5],zero,%xmm1[6],zero,%xmm1[7],zero,
        %xmm1[8],zero,%xmm1[9],zero,%xmm1[10],zero,%xmm1[11],zero,%xmm1[12],zero,%xmm1[13],zero,%xmm1[14],zero,%xmm1[15],zero,
    ; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm0 =
        %xmm0[0],zero,%xmm0[1],zero,%xmm0[2],zero,%xmm0[3],zero,%xmm0[4],zero,%xmm0[5],zero,%xmm0[6],zero,%xmm0[7],zero,
        %xmm0[8],zero,%xmm0[9],zero,%xmm0[10],zero,%xmm0[11],zero,%xmm0[12],zero,%xmm0[13],zero,%xmm0[14],zero,%xmm0[15],zero,
    ; CHECK-NEXT:    vpsllvw %ymm1, %ymm0, %ymm1
    ; CHECK-NEXT:    vpmovzxvw {{.*#+}} ymm2 =
        %xmm2[0],zero,%xmm2[1],zero,%xmm2[2],zero,%xmm2[3],zero,%xmm2[4],zero,%xmm2[5],zero,%xmm2[6],zero,%xmm2[7],zero,
        %xmm2[8],zero,%xmm2[9],zero,%xmm2[10],zero,%xmm2[11],zero,%xmm2[12],zero,%xmm2[13],zero,%xmm2[14],zero,%xmm2[15],zero,
    ; CHECK-NEXT:    vpsrlvw %ymm2, %ymm0, %ymm0
    ; CHECK-NEXT:    vpor %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vpmovzb %ymm0, %ymm0
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
%b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: var_rotate_v32i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpsllw %ymmm1, %ymmm0, %ymmm1
    ; CHECK-NEXT:    vpmovzxvw {{.*#+}} ymm2 =
        %xmm2[0],zero,%xmm2[1],zero,%xmm2[2],zero,%xmm2[3],zero,%xmm2[4],zero,%xmm2[5],zero,%xmm2[6],zero,%xmm2[7],zero,
        %xmm2[8],zero,%xmm2[9],zero,%xmm2[10],zero,%xmm2[11],zero,%xmm2[12],zero,%xmm2[13],zero,%xmm2[14],zero,%xmm2[15],zero,
    ; CHECK-NEXT:    vpsrlw %ymmm2, %ymmm0, %ymmm0
    ; CHECK-NEXT:    vpblendvb %ymmm1, %ymmm3, %ymmm0, %ymmm0
    ; CHECK-NEXT:    vpmovzb %ymmm0, %ymmm0
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
%b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
%shl = shl <32 x i8> %a, %b
%lshr = lshr <32 x i8> %a, %b8
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: splatvar_rotate_v32i8:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT:    vpbroadcastb %xmm1, %xmm1
    ; CHECK-AVX512-NEXT:    vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-AVX512-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
        xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-AVX512-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-AVX512-NEXT:    vpcmpeqd %xmm4, %xmm4, %xmm4
    ; CHECK-AVX512-NEXT:    vpsllw %xmm2, %xmm4, %xmm2
    ; CHECK-AVX512-NEXT:    vpbroadcastb %xmm2, %ymm2
    ; CHECK-AVX512-NEXT:    vpand %ymm2, %ymm3, %ymm2
    ; CHECK-AVX512-NEXT:    vpsrlw %xmm0, %ymm0
    ; CHECK-AVX512-NEXT:    vpmovzxbq {{.*#+}} xmm1 =
        xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-AVX512-NEXT:    vpsllw %xmm1, %ymm0, %ymm5
    ; CHECK-AVX512-NEXT:    vpsrlw %xmm1, %ymm4, %ymm0
    ; CHECK-AVX512-NEXT:    vpsllw %xmm2, %ymm4, %xmm0
    ; CHECK-AVX512-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
        xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-AVX512-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-AVX512-NEXT:    vpcmpq %xmm4, %xmm4, %xmm4
    ; CHECK-AVX512-NEXT:    vpsrlw %xmm0, %ymm0
    ; CHECK-AVX512-NEXT:    vpbroadcastb %xmm0, %ymm0
    ; CHECK-AVX512-NEXT:    vpternlogq $236, %ymm5, %ymm2, %ymm0
    ; CHECK-AVX512-NEXT:    retq
    
    ; CHECK-VBMI-LABEL: splatvar_rotate_v32i8:
    ; CHECK-VBMI:       # %bb.0:
    ; CHECK-VBMI-NEXT:    vpbroadcastb %xmm1, %xmm1
    ; CHECK-VBMI-NEXT:    vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-VBMI-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
        xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-VBMI-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-VBMI-NEXT:    vpcmpq %xmm4, %xmm4, %xmm4
    ; CHECK-VBMI-NEXT:    vpsrlw %xmm0, %ymm0
    ; CHECK-VBMI-NEXT:    vpbroadcastb %xmm0, %ymm0
    ; CHECK-VBMI-NEXT:    vpternlogq $236, %ymm5, %ymm2, %ymm0
    ; CHECK-VBMI-NEXT:    retq
    
    ; CHECK-VPNI-LABEL: splatvar_rotate_v32i8:
    ; CHECK-VPNI:       # %bb.0:
    ; CHECK-VPNI-NEXT:    vpbroadcastb %xmm1, %xmm1
    ; CHECK-VPNI-NEXT:    vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-VPNI-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
        xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
    ; CHECK-VPNI-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-VPNI-NEXT:    vpcmpeqd %xmm4, %xmm4, %xmm4
    ; CHECK-VPNI-NEXT:    vpsrlw %xmm0, %ymm0
    ; CHECK-VPNI-NEXT:    vpbroadcastb %xmm0, %ymm0
    ; CHECK-VPNI-NEXT:    vpternlogq $236, %ymm5, %ymm2, %ymm0
    ; CHECK-VPNI-NEXT:    retq
}

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: splatconstant_rotate_v32i8:
  ; CHECK-LABEL: splatconstant_rotate_v32i8:
  ; CHECK-LABEL: splatconstant_rotate_v32i8:
  ; CHECK-LABEL: splatconstant_rotate_v32i8:
  retq
}
define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm1
  ; CHECK-NEXT:    vpsrlw $4, %ymm0, %ymm0
  ; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
  ; CHECK-NEXT:    retq
  %shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
  4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
  4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
  %lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
  4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
  4, i8 4, i8 4, i8 4, i8 4, i8 4>
  %rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55,
  i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55>
  %lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8
  33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33>
  %or = or <32 x i8> %lmask, %rmask
  ret <32 x i8> %or
}*************************************************************************

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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
lldbCore
lldbHost
lldbSymbol
LINK_COMPONENTS
  Support
)

RUN: llc -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

; Truncating a type-to-be-widenened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

target triple = "hexagon"

define dllexport void @f0(i8* %a0) local_unnamed_addr #0 {
  b0:
  %v0 = load i8, i8* undef, align 1
  %v1 = zext i8 %v0 to i16
  %v2 = add i16 0, %v1
  %v3 = icmp sgt i16 %v2, 1
  %v4 = select i1 %v3, i16 %v2, i16 1
  %v5 = udiv i16 -32768, %v4
  %v6 = zext i16 %v5 to i32
  %v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
  %v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitializer
  %v9 = load <8 x i16>, <8 x i16>* undef, align 2
%v10 = sext <8 x i16> %v9 to <8 x i32>
%v11 = mul nsw <8 x i32> %v8, %v10
%v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
%v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
%v14 = trunc <8 x i32> %v13 to <8 x i8>
%v15 = getelementptr inbounds i8, i8* %a0, i32 undef
%v16 = bitcast i8* %v15 to <8 x i8>*
store <8 x i8> %v14, <8 x i8>* %v16, align 1
ret void
}

attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
i32 1, label %sw.bb.i
i32 2, label %sw.bb3.i
]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [
i32 1, label %sw.bb.i17
}
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" } 
; NOTE: Assertions have been autogenerate by utils/update_test_checks.py UTC_ARGS: --function-signature --check-attributes
; RUN: opt -attributor -enable-new-pm=0 -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________OPM,IS__TUNIT_OPM  
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NP,IS__TUNIT_OPM  
; RUN: opt -attributor-cgscc -enable-new-pm=0 -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS________OPM,IS__CGSCC_OPM  
; RUN: opt -aa-pipeline=basic -passes=attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS________NP,IS__CGSCC_NPM  
; Test that we only promote arguments when the caller/callee have compatible 
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
#define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {  
  %tmp = load <8 x i64>, %arg
  store <8 x i64> %tmp, %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {  
  %tmp = load <8 x i64>, %arg
  store <8 x i64> %tmp, %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {  
  %tmp = load <8 x i64>, %arg
  store <8 x i64> %tmp, %arg
  ret void
}
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint noref nocurrsync nosync nound gwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture noref writeonly [[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture noref noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture noref
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]]) [[ATTR7:#.*]]
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint noref nocurrsync nosync nound gwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture noref writeonly 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture noref noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__CGSCC_OPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture noref
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]]) [[ATTR7:#.*]]
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint noref nocurrsync nosync nound gwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture noref writeonly 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture noref noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__CGSCC_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:  call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* noalias nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], 8 x i64 [[TMP0]] [[ATTR7:#.*]]
  ; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load 8 x i64, 8 x i64* [[TMP2]], align 64
  ; IS__CGSCC_NPM-NEXT: store 8 x i64 [[TMP4]], 8 x i64* [[ARG]], align 2
  ; IS__CGSCC_NPM-NEXT: ret void
bb:
%tmp = alloca 8 x i64, align 32
%tmp2 = alloca 8 x i64, align 32
%tmp3 = bitcast 8 x i64* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* %tmp2, 8 x i64* %tmp)
%tmp4 = load 8 x i64, 8 x i64* %tmp2, align 32
store 8 x i64 %tmp4, 8 x i64* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg, 8 x i64* readonly %arg1) #1 {

  ; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nospill noundef nounwind uwtable willreturn
  ; IS________OPM-LABEL: define
  {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], 8 x i64* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR1:#.*]] {
  ; IS________OPM-NEXT: bb:
  ; IS________OPM-NEXT: [[TMP:%.*]] = load 8 x i64, 8 x i64* [[ARG1]], align 64
  ; IS________OPM-NEXT: store 8 x i64 [[TMP]], 8 x i64* [[ARG]], align 64
  ; IS________OPM-NEXT: ret void

  ; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nospill noundef nounwind uwtable willreturn
  ; IS________NPM-LABEL: define
  {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], 8 x i64* [[TMP0]:%.*]) [[ATTR1:#.*]] {
  ; IS________NPM-NEXT: bb:
  ; IS________NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca 8 x i64, align 64
  ; IS________NPM-NEXT: store 8 x i64 [[TMP0]], 8 x i64* [[ARG1_PRIV]], align 64
  ; IS________NPM-NEXT: [[TMP:%.*]] = load 8 x i64, 8 x i64* [[ARG1_PRIV]], align 64
  ; IS________NPM-NEXT: store 8 x i64 [[TMP]], 8 x i64* [[ARG]], align 64
  ; IS________NPM-NEXT: ret void

  bb:
  %tmp = load 8 x i64, 8 x i64* %arg1
  store 8 x i64 %tmp, 8 x i64* %arg
ret void

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {

: IS__UNIT_OPM: Function Attrs: argmemonly inlinehint nofirecursion norecurse nouncertainty unwindable willreturn
: IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
: IS__UNIT_OPM-SAME: (<8 x i64>* nocapture nofirecursion writeonly [[ARG:%.*]]) [[ATTR1:#.*]]
: IS__UNIT_OPM-NEXT: bb:
: IS__UNIT_OPM-NEXT:=[[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__UNIT_OPM-NEXT:=[[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__UNIT_OPM-NEXT:=[[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofirecursion nouncertainty nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 nouncdef 0, i64 nouncdef 32, i1 nouncdef false) [[ATTR6]]
: IS__UNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofirecursion nouncertainty nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofirecursion nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
: IS__UNIT_OPM-NEXT:=[[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__UNIT_OPM-NEXT:=[[TMP5:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
: IS__UNIT_OPM-NEXT: ret void

: IS__UNIT_NPM: Function Attrs: argmemonly inlinehint nofirecursion norecurse nouncertainty unwindable willreturn
: IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
: IS__UNIT_NPM-SAME: (<8 x i64>* nocapture nofirecursion writeonly [[ARG:%.*]]) [[ATTR1:#.*]]
: IS__UNIT_NPM-NEXT: bb:
: IS__UNIT_NPM-NEXT:=[[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__UNIT_NPM-NEXT:=[[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__UNIT_NPM-NEXT:=[[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofirecursion nouncertainty nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 nouncdef 0, i64 nouncdef 32, i1 nouncdef false) [[ATTR6]]
: IS__UNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofirecursion nouncertainty nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofirecursion nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
: IS__UNIT_NPM-NEXT:=[[TMP6:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__UNIT_NPM-NEXT:=[[TMP7:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
: IS__UNIT_NPM-NEXT: ret void

: IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofirecursion norecurse nouncertainty unwindable willreturn
: IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
: IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofirecursion writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR1:#.*]]
: IS__CGSCC_OPM-NEXT: bb:
: IS__CGSCC_OPM-NEXT:=[[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT:=[[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT:=[[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofirecursion nouncertainty nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]

; IS__CGSCC_OPM-NEXT: call fastcc void
callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]

; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define { [^@]+ } @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR1:#.*]]

; IS__CGSCC_NPM-NEXT: bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%
; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP0]], <8 x i64> [[TMP0]]) [[ATTR7]]

; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%
store <8 x i64>* %tmp4, <8 x i64>* %arg, align 2
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 { }

@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(%arg) callee

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ;
  ; IS____OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS____OPM-LABEL: define
  ; IS____OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  [[ATTR0]] {
    ; IS____OPM-NEXT: bb:
    ; IS____OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
    ; IS____OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS____OPM-NEXT: ret void
  ;
  ; IS____NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS____NPM-LABEL: define
  ; IS____NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) [[ATTR0]] {
    ; IS____NPM-NEXT: bb:
    ; IS____NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS____NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS____NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS____NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS____NPM-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ;
  ; IS____TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
@ callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64)* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]

IS__TUNIT_OPM-NEXT:: call fastcc void

@ callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(8 x i64)* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
  (<8 x i64>* nocapture nofree noundef writeonly align 2 dereferenceable(64)
  [[ARG:.*]]) [[ATTR1]] {
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
  <8 x i64>* readonly %arg1) #1 {
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
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define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture noundef nonnull writeonly align 64 dereferenceable(64) [ARG:%.*]) noalias nocapture noundef nonnull readonly align 64 dereferenceable(64) [ARG1:%.*]) [[ATTR1]] {
  bb:
    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [ARG1], align 64
    store <8 x i64> [[TMP]], <8 x i64>* [ARG], align 64
    ret void
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
nonnull readonly align 64 dereferenceable(64) [[TMP]] [ATTR7]

; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint norefree norecurse nosync nounwind uwttable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture norefree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]]) [ATTR2:#.*] { [ATTR7]
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture norefree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [ATTR6]
; IS__CGSCC_OPM-NEXT: bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp, <8 x i64>* %tmp)

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define void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  ; This should not promote
  %tmp = load <8 x i64>, <8 x i64>* %arg2, align 32
  store <8 x i64> %tmp, <8 x i64>* %arg, align 2
  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  ;
  ; IS______OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS______OPM-LABEL: define
  {[^@]+} @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS______OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.%*]]) [[ATTR2:#.*]]
  ; IS______OPM-NEXT: bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void

  ;
  ; IS______NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS______NPM-LABEL: define
  {[^@]+} @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS______NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.%*]]) [[ATTR2:#.*]]
  ; IS______NPM-NEXT: bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ;
  ; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS__TUNIT_OPM-LABEL: define
  {[^@]+} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]]) [[ATTR1]]
  ; IS__TUNIT_OPM-NEXT: bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef writeonly align 64 dereferenceable(64) [[ARG:.%*]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  ret void

  define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ;
  ; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
  ; IS__TUNIT_OPM-LABEL: define
  {[^@]+} @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:.%*]]) [[ATTR1]]
  ; IS__TUNIT_OPM-NEXT: bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
open source used in crosswork optimization engine 4.0.0

; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {

; IS______OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS______OPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS______OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.%*]]) [[ATTR3:.%*]]
{;
; IS______OPM-NEXT: bb:
; IS______OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS______OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS______OPM-NEXT: ret void
;
; IS______NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS______NPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS______NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]], <8 x i64> [[TMP0:.%*]]) [[ATTR3:.%*]]
{;
; IS______NPM-NEXT: bb:
; IS______NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS______NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg #4 {
  bb:
  %tmp = load 8 x i64*, 8 x i64汪 * %arg
  store 8 x i64* %tmp, 8 x i64* %arg
  ret void
}

define void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* nocapture norename nonnull writeonly [[ARG:%.*]] [[ATTR4:##.*]] {
  bb:
  %tmp = allocaw 8 x i64*, align 32
  %tmp2 = allocaw 8 x i64*, align 32
  %tmp3 = bitcast 8 x i64* [[TMP]] to i8*
  %tmp = cast void @llvm.memset.p0i8.i64(i8* nocapture norename nonnull dereferenceable(64) [[TMP3]], i8 nonnull 0, 64 nonnull 32, i1 nonnull false) [[ATTR6]]
  %tmp = call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* nocapture norename nonnull dereferenceable(64) [[TMP2]], 8 x i64* nocapture norename nonnull dereferenceable(64) [[TMP2]] [[ATTR7]]
  %tmp = load 8 x i64*, 8 x i64* [[TMP]], align 64
  store 8 x i64* [[TMP]], 8 x i64* [[ARG]], align 2
  ret void
}

define void @callnc_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* nocapture norename nonnull dereferenceable(64) [[TMP2]], 8 x i64* nocapture norename nonnull dereferenceable(64) [[TMP2]] [[ATTR7]]
  %tmp = call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* noalias nocapture norename nonnull dereferenceable(64) [[TMP2]], 8 x i64* [[TMP0]], align 64 dereferenceable(64) [[TMP2]] [[ATTR7]]
  %tmp = load 8 x i64*, 8 x i64* [[TMP2]], align 64
  store 8 x i64* [[TMP4]], 8 x i64* [[ARG]], align 2
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg #4 {
  bb:
  %tmp = load 8 x i64*, 8 x i64* %arg
  store 8 x i64* %tmp, 8 x i64* %arg
  ret void
}
Define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #4 { %tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* 32 i8 0, i64 32, i1 false) call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp4, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void }

This should promote

; IS______OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync noundef nudspertible willreturn
; IS______OPM-LABEL: define {{[^@]+}} @callee_avx2_legal128_prefer256_call_avx2_legal256_prefer256
; IS______OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.%*]]) [[ATTR4:#.*]]

; IS______OPM-NEXT: bb:
; IS______OPM-NEXT: [[TMP:.%*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS______OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS______OPM-NEXT: ret void

; IS______NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync noundef nudspertible willreturn
; IS______NPM-LABEL: define {{[^@]+}} @callee_avx2_legal128_prefer256_call_avx2_legal256_prefer256
; IS______NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.%*]], <8 x i64> [[TMP0:.%*]]) [[ATTR4:#.*]]

; IS______NPM-NEXT: bb:
; IS______NPM-NEXT: [[ARG1_PRIV:.%*]] = alloca <8 x i64>, align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS______NPM-NEXT: [[TMP:.%*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS______NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg1
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
 ;
 ; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync noundef nudspertible willreturn
 ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
 ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:.%*]]) [[ATTR3:#.*]]

 ; IS__TUNIT_OPM-NEXT: bb:
 ; IS__TUNIT_OPM-NEXT: [[TMP:.%*]] = alloca <8 x i64>, align 32
 ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
 ; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx2_legal128_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
 ; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx2_legal128_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
 ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
 ; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
 ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 2
 ; IS__TUNIT_OPM-NEXT: ret void

 ; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync noundef nudspertible willreturn
 ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR3:#.*]] {
    IS__TUNIT_NPM-NEXT: bb:

    IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
    IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
    IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
    IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, [8 x i64>* [[ARG]], align 2
    IS__TUNIT_NPM-NEXT: ret void

    IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofrcore nosync nounwind uwtable willreturn
    IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256 {
        IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR3:#.*]] {
            IS__CGSCC_OPM-NEXT: bb:

            IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
            IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
            IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
            IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
            IS__CGSCC_OPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
            IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
            IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, [8 x i64>* [[ARG]], align 2
            IS__CGSCC_OPM-NEXT: ret void

        IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofrcore nosync nounwind uwtable willreturn
        IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256 {
            IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR3:#.*]] {
                IS__CGSCC_NPM-NEXT: bb:

                IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
                IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
                IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
                IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
                IS__CGSCC_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
                IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
                IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, [8 x i64>* [[ARG]], align 2
                IS__CGSCC_NPM-NEXT: ret void

            IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
        }
    }
}
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
;
bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
  %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
                         metadata !"fpexcept.strict")
  strictfp
ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
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; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,AVX512VL256
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; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=SKX512

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; AVX512VL512-LABEL: 'sext256'
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; SKX512-LABEL: 'sext256'
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ; AVX512VL256-LABEL: 'sext512'
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ; AVX512VL512-LABEL: 'sext512'
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ; SKX256-LABEL: 'sext512'
define void @trunc256() "min-legal-vector-width"="256" {
  %A = trunc <8 x i64> undef to <8 x i32>
  %B = trunc <8 x i64> undef to <8 x i16>
  %C = trunc <8 x i64> undef to <8 x i8>
  %D = trunc <16 x i16> undef to <16 x i8>
  %E = trunc <16 x i16> undef to <16 x i8>
  %F = trunc <32 x i16> undef to <32 x i8>
  ret void
}

AVX-LABEL: 'trunc256'
AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i16> undef to <16 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

AVX512VL256-LABEL: 'trunc256'
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; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
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- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
- SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
- SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
- SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
- SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
- SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
- SKX512-LABEL: 'zext256_vXi1'
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
- SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'sext256_vXi1'

; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i64 = sext <16 x i1> undef to <16 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i64 = sext <32 x i1> undef to <32 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
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define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
  undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64>
  undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64>
  undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
  undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
  undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
  undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
  undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
  undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
  undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32>
  undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32>
  undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32>
  undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16>
  undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>
  undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
  undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
  undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
  undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
  undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8>
  undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8>
  undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8>
  undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
  undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8>
  undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>
%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}
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1.532 py3-urllib 1.26.7-r0
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1.533 netty-codec 4.1.48.Final

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/*
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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</a>
 * Base64 Encoder/Decoder</a>.
 * */

Found in path(s):
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.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.
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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>
* 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.
* <pre>
* lengthFieldOffset = 0
* </pre>

<h3>2 bytes length field at offset 0, do not strip header</h3>
*
* \( \text{initialBytesToStrip} = 0 \) (= do not strip header)

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

* \( \begin{array}{c|c|c}
\text{Length} & \text{Actual Content} & \text{Length} \\
\hline
0x000C & "HELLO, WORLD" & 0x000C & "HELLO, WORLD" \\
\end{array} \)

* </pre>

* 2 bytes length field at offset 0, strip header

* Because we can get the length of the content by calling
* \{@link ByteBuf#readableBytes()\}, you might want to strip the length
* field by specifying \(<tt>\text{initialBytesToStrip}</tt>\). In this example, we
* specified \(<tt>2</tt>\), that is same with the length of the length field, to
* strip the first two bytes.

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

* \( \begin{array}{c|c|c}
\text{Length} & \text{Actual Content} & \text{Length} \\
\hline
0x000C & "HELLO, WORLD" & \\
\end{array} \)

* </pre>

* 2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message

* 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
* \(<tt>\text{lengthAdjustment}</tt>\). 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 \(<tt>\text{lengthAdjustment}</tt>\) for compensation.

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

* \( \begin{array}{c|c|c}
\text{Length} & \text{Actual Content} & \text{Length} \\
\hline
0x000C & "HELLO, WORLD" & 0x000C & "HELLO, WORLD" \\
\end{array} \)
* +-------------+ +-------------+      +-------------+ +-------------+  
* | Length | Actual Content |----->| Length | Actual Content |  
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |  
* +-------------+ +-------------+      +-------------+ +-------------+  
* </pre>  
*  
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>  
*  
* The following message is a simple variation of the first example. An extra  
* header value is prepended to the message. lengthAdjustment is zero  
* again because the decoder always takes the length of the prepended data into  
* account during frame length calculation.  
*  
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)  
* +----------+----------+------------------+      +----------+----------+------------------+  
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |  
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |  
* +----------+----------+------------------+      +----------+----------+------------------+  
* </pre>  
*  
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>  
*  
* This is an advanced example that shows the case where there is an extra  
* header between the length field and the message body. You have to specify a  
* positive lengthAdjustment so that the decoder counts the extra  
* header into the frame length calculation.  
*  
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)  
* +----------+----------+------------------+      +----------+----------+------------------+  
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |  
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |  
* +----------+----------+------------------+      +----------+----------+------------------+  
* </pre>  
*  
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
strip the first header field and the length field</h3>  
*  
* This is a combination of all the examples above. There are the prepended  

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

* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+--------+----------------+      +----------------+--------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+--------+----------------+      +----------------+--------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. We
* please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* 
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+--------+----------------+      +----------------+--------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+--------+----------------+      +----------------+--------+----------------+
* </pre>
* 
* @see LengthFieldPrepender
*/

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* /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
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /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/ProtobufEncoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.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/ProtobufDecoderNano.java
* /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/ProtobufEncoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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  jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/compression/CompressorOutputStream.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
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  jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/decoder/DecoderException.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallingUnmarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallingUnmarshallerProvider.java

* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.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/Bzip2DivSufSort.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java

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jar/io/netty/handler/codec/ValueConverter.java
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Found in path(s):
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* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/MethodInfo.java
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* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
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* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/io/github/classgraph/MethodParameterInfo.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/io/github/classgraph/AnnotationInfo.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptionChecker.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/ClassGraphClassLoaderHandler.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/io/github/classgraph/FieldInfo.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/collection/Resettable.java
* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/io/github/classgraph/ArrayTypeSignature.java
Open Source Used In Crosswork Optimization Engine 4.0.0  3778

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 * This file is part of ClassGraph.
 *
 * Author: Harith Elrufaie
 *
 * Hosted at: https://github.com/classgraph/classgraph
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 *
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Found in path(s):
*/opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
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*/opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
*/opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/fileslice/RandomAccessReader.java
*/opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/fileslice/SequentialReader.java
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*/opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/fileslice/RandomAccessArrayReader.java
*/opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/fileslice/RandomAccessFileChannelReader.java
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* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-
  jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereLibertyClassLoaderHandler.java
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* /opt/cola/permits/1236287371_1638499839.74/0/classgraph-4-8-116-sources-jar/nonapi/io/github/classgraph/concurrency/AutoCloseableExecutorService.java
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jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java

1.542 py3-contextlib 0.6.0-r1
1.542.1 Available under license :

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===================================
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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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1.543 typing-extensions 4.2.0

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1.547 swagger 2.1.12

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Bundle-Description: swagger-core
Automatic-Module-Name: io.swagger.v3.core
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Bundle-SymbolicName: io.swagger.core.v3.swagger-core
implementation-version: 2.1.12
Bundle-ManifestVersion: 2
Bundle-DocURL: https://github.com/swagger-api/swagger-core/modules/swagger-core

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io.swagger.v3.oas.models.
1.548 apache-karaf-specs-java-xml-ws 4.2.9

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1.549 commons-lang3 3.9

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1.551 geronimo-connector 3.1.4

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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

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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

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

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

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

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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
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1.561 zstd-jni 1.4.3-1

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Zstd-jni: JNI bindings to Zstd Library

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jar/net/jpountz/xxhash/StreamingXXHash32JNI.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Factory.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/Native.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4SafeUtils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4BlockOutputStream.java
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* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/Utils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/StreamingXXHash32.java

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* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/ssl/Java8SslUtils.java
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* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java
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jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

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* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1345092023_1655309068.2890713/0/netty-handler-4-1-77-final-sources-1-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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/**
 * Constructs a new {@link SourceInterpreter} for the latest ASM API version. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the {@link SourceInterpreter(int)}
 * version.
 */
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/**
 * Constructs a new {@link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the {@link #BasicInterpreter(int)}
 * version.
 */

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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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- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martín Brugu
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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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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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1.605 pax-transx-jdbc 0.4.4

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* /opt/cola/permits/1092522797_1602546854.06/0/pax-transx-jdbc-0-4-4-sources.jar/org/ops4j/pax/transx/jdbc/impl/TransxDataSource.java
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* /opt/cola/permits/1092522797_1602546854.06/0/pax-transx-jdbc-0-4-4-sources.jar/org/ops4j/pax/transx/jdbc/ManagedDataSourceBuilder.java
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* /opt/cola/permits/1092522797_1602546854.06/0/pax-transx-jdbc-0-4-4-sources.jar/org/ops4j/pax/transx/jdbc/impl/AutocommitSpecCompliant.java

1.606 vim 8.2.5000-r0

1.606.1 Available under license:

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# Vim Installer and Archives (Win32 and Win64)

This is a project for building Nightly Vim Windows build snapshots automatically ([more information](https://vim.fandom.com/wiki/Where_to_download_Vim)).

[Download](https://github.com/vim/vim-win32-installer/releases/latest) and execute the most recent `gvim_x.y.pppp_x86.exe` file to install Vim (where `x.y` is the release version and `pppp` is the patch number). The exe files contain the (32bit) installer while the .zip files contain an archive of the 32bit (`_x86`) or 64bit versions (`_x64`). To install it, extract the archive and update your PATH variable. The installer will do that automatically and provide some additional extensions (e.g. Edit with Vim menu).

The `gvim...pdb.zip` file only contains the corresponding pdb files for debugging the binaries.

The `gvim.<version>.yml` contains the corresponding winget manifest (as yam) which might in the future be used to upload to the winget package repository. Currently (12/2020), there does not seem to exist an automatic workflow, so you can use this to contribute to [winget](https://github.com/microsoft/winget-pkgs), but you may want to replace the URL and hash of the unsigned 64bit installer by the signed one, if it exists (this is currently not automated).

Note: Due to the expiration of the old certificate, a new certificate to sign the binaries has been created and will be used starting with the next release after April 14th, 2020. This may cause a SmartScreen warning by Windows because the certificate is new. Hopefully this warning will vanish, once the certificate has been used more widely. If you want to avoid this warning, you can use the latest release with the old certificate [v8.2.577](https://github.com/vim/vim-win32-installer/releases/tag/v8.2.0577).

If you need a dynamic interface to Perl, Python2, Python3, Ruby, <del>TCL</del>, <del>Lua</del> or Racket/MzScheme, make sure you also install the following. Vim will work without it, but some Plugin might need this additional dependency. (e.g. [Gundo](https://github.com/sjl/gundo.vim) needs a working Python2 installation, [Command-T](https://github.com/wincent/command-t) needs a working Ruby installation and [Neocomplete](https://github.com/Shougo/neocomplete.vim) needs a working Lua installation). This means, those interpreters have to be installed in addition to Vim. Without it Vim won't be able to use that feature!

You can find those interpreters here:

* [Strawberry Perl](http://strawberryperl.com/) 5.32
* <del>[ActiveTcl](http://www.activestate.com/active_tcl/downloads) 8.6.6</del> (currently disabled)
* [LuaBinaries](http://luabinaries.sourceforge.net/download.html) 5.4
* [Python](https://www.python.org/downloads/) 2.7
* [Python 3](https://www.python.org/downloads/) 3.10
* [Racket](https://download.racket-lang.org/) 8.3 (BC)
* [RubyInstaller](http://rubyinstaller.org/downloads/) 3.0
Make sure that you install the same architecture (32bit/64bit) for those libraries that matches your Vim installation.

Additionally the binaries include the new terminal feature for Vim and therefore contain the winpty.dll (32bit or 64bit) and the winpty-agent.exe from the [winpty repository](https://github.com/rprichard/winpty). This feature is currently considered experimental. Read the help at [`:h terminal.txt`](http://vimhelp.appspot.com/terminal.txt.html) for more information.

For supporting better encryption, it comes with the libsodium.dll from the [libsodium repository](https://github.com/jedisct1/libsodium/releases/1.0.18-RELEASE). See the help at [`:h 'cryptmethod'`](https://vimhelp.org/options.txt.html#%27cryptmethod%27) for more details.

Note: The zip archive might be considered unsecure in Windows, causing Windows to display a dialog box "These files might be harmful to your computer...". If you want to disable this warning, you need to "unblock" the zip file. Do that in the properties dialog of the zip file, first tab General and look for the security section and click on "Unblock". However using a signed release might prevent that behaviour in Windows eventually (see also next paragraph).

Creating a signed binary and installer still requires manual effort, therefore not every release will be signed. They will be provided on a best effort basis occasionally. Signing the releases is provided by [SignPath](https://about.signpath.io/). If there haven't been any signed releases for a long time, feel free to request a new one by creating an [issue](https://github.com/vim/vim-win32-installer/issues) here.

Note: If you want to test some patches, place them in the patch directory with the extension `.patch`. They will be applied before building Vim and the binary will then be tested against the test suite.

See: [Vim Repository](https://github.com/vim/vim) for the Vim source.

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Note, that Vim is included as a submodule and comes with its own license (although is also released under the Vim license).

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* `/opt/cola/permits/1343771342_1658151331.79422570/vim-win32-installer-8-2-5006-tar-gz/vim-win32-installer-8.2.5006/README.md`

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1.607 netty-handler-proxy 4.1.75.Final
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* /opt/cola/permits/1301917028_1649305761.02/0/netty-handler-proxy-4-1-75-final-sources-1-jar/io/netty/handler/proxy/HttpProxyHandler.java
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* /opt/cola/permits/1301917028_1649305761.02/0/netty-handler-proxy-4-1-75-final-sources-1-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

1.608 mdsal-eos-binding-adapter 6.0.7

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1.609 apache-karaf-features-extension 4.2.9

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* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtins-3-14-1-sources-1-jar/org/jline/builtins/Nano.java
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* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/Builtins.java
* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/ConsoleEngineImpl.java
* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/CommandRegistry.java
* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/SystemRegistryImpl.java
* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/SystemRegistry.java
* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/Widgets.java
* /opt/cola/permits/1125706590_1611440479.43/0/jline-builtinss-3-14-1-sources-1-jar/org/jline/builtins/ConsoleEngine.java

1.611 pax-jdbc-pool-dbcp2 1.4.4
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* /opt/cola/permits/1092522851_1602547216.25/0/pax-jdbc-pool-dbcp2-1-4-4-sources-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/DbcpPoolEdDataSourceFactory.java
* /opt/cola/permits/1092522851_1602547216.25/0/pax-jdbc-pool-dbcp2-1-4-4-sources-jar/org/ops4j/pax/jdbc/pool/dbcp2/impl/Activator.java

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jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-
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jar/io/netty/channel/unix/Socket.java
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jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-
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* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-
jar/netty_unix_filedescriptor.c
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jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-
jar/netty_unix_socket.c
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-
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* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-jar/netty_unix_errors.c
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-jar/netty_unix_socket.h
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
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* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
jar/io/netty/channel/unix/Limits.java

* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4.1.78-final-sources-
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jar/io/netty/channel/unix/UnixChannelOption.java
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* /opt/cola/permits/1346931609_1655514419.120689/0/netty-transport-native-unix-common-4-1-78-final-sources-jar/io/netty/channel/unix/Buffer.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterMetadataAccessor.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerCombiner.java

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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java
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* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/PathContext.java
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  * /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
  * /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
  * /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/Defaults.java
  * /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java
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* /opt/cola/permits/1092522996_1602546798.42/0/pax-jms-pool-transx-1-0-7-sources-
  jar/org/ops4j/pax/jms/pool/transx/TransxXAPooledConnectionFactoryFactory.java
* /opt/cola/permits/1092522996_1602546798.42/0/pax-jms-pool-transx-1-0-7-sources-
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its purpose remains meaningful.

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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessors.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/OpenSSlSessionTicketKey.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiatorHandler.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/OpenSSlSessionTicketKey.java
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* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java

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* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
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* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-jar/io/netty/handler/ipfilter/SslClosedEngineException.java
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jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/logging/LoggingHandler.java
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jar/io/netty/handler/ssl/NotSslRecordException.java
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jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1346931711_1655514403.5174587/0/netty-handler-4-1-78-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
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* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/Message.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/ExtensionRegistry.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/BlockingRpcChannel.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
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  jar/akka/protobuf/LazyField.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/UnknownFieldSet.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/SingleFieldBuilder.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/Descriptors.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/GeneratedMessage.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/CodedInputStream.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/WireFormat.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/Service.java
* /opt/ws_local/PERMITS_SQL/1062462128_1595367389.64/0/akka-protobuf-2-12-2-5-31-sources-
  jar/akka/protobuf/LazyStringArrayList.java
1.631 grpc-netty 1.46.0
1.631.1 Available under license:
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1.632 sal-akka-raft 2.0.6
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1.637 iputils 20190709-3

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*/opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/WebMvcRequestHandlerProvider.java

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

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

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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

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

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.647 logback-core 1.12.0

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* /opt/cola/permits/1364674041_1658057089.7793746/0/pax-logging-sample-fragment-logback-1-12-0-sources-jar/org/ops4j/pax/logging/logback/extra/DebugFilter.java
* /opt/cola/permits/1364674041_1658057089.7793746/0/pax-logging-sample-fragment-logback-1-12-0-sources-jar/org/ops4j/pax/logging/logback/extra/AlwaysTriggerPolicy.java

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1.648 weld-spi 2.4.SP2
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1.649 mdsal-binding-generator-api 6.0.7

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1.651 coreutils 8.30 3ubuntu2

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.mortbay.jasper:apache-el
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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1092523253_1602547072.58/0/pax-cdi-spi-1-1-3-sources-jar/org/ops4j/pax/cdi/spi/CdiClassLoaderBuilderCustomizer.java

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# Core commands
io.vertx.core.impl.launcher.commands.RunCommandFactory
io.vertx.core.impl.launcher.commands.VersionCommandFactory
io.vertx.core.impl.launcher.commands.BareCommandFactory

# Background application control
io.vertx.core.impl.launcher.commands.ListCommandFactory
io.vertx.core.impl.launcher.commands.StartCommandFactory
io.vertx.core.impl.launcher.commands.StopCommandFactory

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1.668 pax-cdi-api 1.1.3

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* /opt/ws_local/PERMITS_SQL/1092523893_1600742358.4/0/pax-cdi-api-1-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1092523893_1600742358.4/0/pax-cdi-api-1-1-3-sources-jar/org/ops4j/pax/cdi/api/SingletonScoped.java

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* /opt/ws_local/PERMITS_SQL/1092523893_1600742358.4/0/pax-cdi-api-1-1-3-sources-jar/org/ops4j/pax/cdi/api/Dynamic.java
* /opt/ws_local/PERMITS_SQL/1092523893_1600742358.4/0/pax-cdi-api-1-1-3-sources-jar/org/ops4j/pax/cdi/api/Optional.java
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* /opt/ws_local/PERMITS_SQL/1092523893_1600742358.4/0/pax-cdi-api-1-1-3-sources-jar/org/ops4j/pax/cdi/api/PrototypeScoped.java

1.669 py3-webencodings 0.5.1-r4
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```python
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```
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/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().strip()).group(1)

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    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
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
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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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
This is a Python implementation of the `WHATWG Encoding standard`_.

.. _http://encoding.spec.whatwg.org/

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1.670 lzo 2.10-r2

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1.672 orbportability 5.9.8.Final

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1.673 appier 1.29.1

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Metadata-Version: 1.1
Name: appier
Version: 1.29.1
Summary: Appier Framework
Home-page: http://appier.hive.pt
Author: Hive Solutions Lda.
Author-email: development@hive.pt
License: Apache License, Version 2.0
Description: `Appier <http://appier.hive.pt>`__

Joyful Python Web App development

Appier is an object-oriented Python web framework built for super fast app development. It's as lightweight as possible, but not too lightweight. It gives you the power of bigger frameworks, without their complexity.

Installation
------------

pip install appier

Usage
-----

.. code:: python

    import appier

    class HelloApp(appier.App):
        @appier.route("/", "GET")
        def hello(self):
            return "Hello World"

    HelloApp().serve()

More
----

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For more information consult the `website <http://appier.hive.pt>`_.

Keywords: appier framework web json wsgi
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Topic :: Utilities
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.0
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1.674 apache-servicemix-specs-jsr303-api

2.9.0

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*/
/** *
* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor) ]
* version.
*
* @param owner
*   the owner's class name.
* @param access
*   the method's access flags (see [ @link Opcodes ]).
* @param name
*   the method's name.
* @param desc
*   the method's descriptor (see [ @link Type Type ]).
* @param mv
*   the method visitor to which this adapter delegates calls. May
*   be <tt>null</tt>.
* @throws IllegalStateException
*   If a subclass calls this constructor.
*/

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/**
 * 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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/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[],)
 * version.<br />
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see {@link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * {@link Type#getName()}). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
 * Constructs a new \texttt{LocalVariableAnnotationNode}. \textit{Subclasses must
 * not use this constructor}. Instead, they must use the
 * \texttt{LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See \texttt{TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within \texttt{typeRef}. May be
 * \texttt{null} if the annotation targets \texttt{typeRef} as a whole.
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the \texttt{start} array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the \texttt{start} array.
* `@param desc`
* the class descriptor of the annotation class.
*/

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* `/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java`

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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Constructs a new '{@link ClassNode}'. <i>Subclasses must not use this
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 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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1.683 jackson-databind 2.9.6

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1.684 reactor-core 3.3.0.RELEASE

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1.685 http2-common 9.4.28.v20200408

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

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Oracle OpenJDK

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* java.sun.security.ssl

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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.
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1.689 adduser 3.118ubuntu2

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1.690 py 1.11.0

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

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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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

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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.
---------------------------------------------------------------------------
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* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/AsciiBuffer.java
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/ObjectCodec.java
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/Buffer.java
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/BufferEditor.java
* /opt/cola/permits/1000773954_1646171575.37/0/hawtbuf-1-11-sources-jar/org/fusesource/hawtbuf/codec/LongCodec.java
1.701 stax 4.2.1
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* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/package-info.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/UndoTree.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/EndOfFileException.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Binding.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Reference.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/UserInterruptedException.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/ws_local/PERMITS_SQL/1062752948_1592843849.55/0/jline-reader-3-14-1-sources-
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1.704 aaa-authn-api 0.12.1

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1.705 triemap 1.2.0

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* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/AbstractKeySet.java
* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/MutableKeySet.java
* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/LNodeEntry.java
* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/INode.java
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* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/LookupResult.java
* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/MutableEntrySet.java
* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/package-info.java
* /opt/cola/permits/1092522858_1602546469.85/0/triemap-1-2-0-sources-jar/tech/pantheon/triemap/SerializationProxy.java
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1.706 maven-model 3.6.0

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1.707 pyzmq 23.2.0

1.707.1 Available under license:
wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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1.708 google-api 0.1.12
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Metadata-Version: 1.1
Name: google_api
Version: 0.1.12
Summary: Google API Client
Home-page: http://google-api.hive.pt
Author: Hive Solutions Lda.
Author-email: development@hive.pt
License: Apache License, Version 2.0
Description: UNKNOWN
Keywords: google api
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
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* /opt/cola/permits/1154768412_1635166710.47/0/google-api-0-1-12-tar-gz/google_api-0.1.12/PKG-INFO
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* /opt/cola/permits/1154768412_1635166710.47/0/google-api-0-1-12-tar-gz/google_api-0.1.12/setup.py
* /opt/cola/permits/1154768412_1635166710.47/0/google-api-0-1-12-tar-gz/google_api-0.1.12/src/google/token.py
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* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
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* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java

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1.710 netty-codec-socks 4.1.77.Final

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  jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksCmdType.java
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  jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
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* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
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* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
  jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
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* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
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jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-
jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1345513619_1655361104.3688474/0/netty-codec-socks-4-1-77-final-sources-1-jar/io/netty/handler/codec/socksx/SocksInitResponseDecoder.java
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* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources-jar/com/google/gson/ToNumberStrategy.java

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* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

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* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources-jar/com.google.gson.stream/JsonScope.java
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* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources.jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources.jar/com/google/gson/internal/bind/TypeAdapters.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

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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

The following artifacts are ASL2 licensed. Based on selected classes from 
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/AccessException.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/expression/ParserContext.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/CompiledExpression.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/ReflectionHelper.java

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* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/DataBindingMethodResolver.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/TemplateAwareExpressionParser.java
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* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/Operation.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/ExpressionState.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/StandardOperatorOverloader.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/StandardEvaluationContext.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/spe/support/SpelNode.java

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* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/MethodFilter.java
* /opt/cola/permits/1347859609_1655733795.8299563/0/spring-expression-5-3-21-sources-jar/org/springframework/expression/TypeLocator.java
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jar/org/springframework/expression/spel/ast/OpLE.java
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jar/org/springframework/expression/spel/ast/OpOr.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/resolver/HttpsNameResolver.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/cluster/MemberAddResponse.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthUserDeleteResponse.java
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* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/ClusterImpl.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/AbstractResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/AuthImpl.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/Election.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/GetOption.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/CompactOption.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/ClusterImpl.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
*/

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4.1.75.Final
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/netty_unix.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/netty_unix.c
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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/UnixChannelUtil.java
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/netty_unix_util.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/netty_unix_limits.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/netty_unix_util.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/netty_unix_limits.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native- unix-common-4-1-75-final-sources-1- jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

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jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_errors.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_errors.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_socket.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_socket.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/Socket.java

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jar/netty_unix_buffer.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/netty_unix_buffer.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.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/DomainDatagramPacket.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
* /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- jar/io/netty/channel/unix/Unix.java
* /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

1.722 simpleclient-servlet 0.10.0

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Manifest-Version: 1.0
Bnd-LastModified: 1611582631944
Build-Jdk: 1.8.0_275
Built-By: bbrazil
Bundle-Description: HTTP servlet exporter for the simpleclient.
1.723 libidn 2.2.0 2

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1.725 zookeeper 3.6.0

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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1- jar/google/api/launch_stage.proto

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* <code>EARLY_ACCESS = 1;</code>
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  jar/google/api/monitoring.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/control.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/documentation.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/resource.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/latlng.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/dayofweek.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/type/fraction.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/httpbody.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/log.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/context.proto
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  jar/google/api/quota.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/logging/type/http_request.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/auth.proto
* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
  jar/google/api/backend.proto
Open Source Used In Crosswork Optimization Engine 4.0.0  4754
1.734 springfox-spring-webflux 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082519010_1597959698.08/0/springfox-spring-webflux-3-0-0-sources-jar/springfox/documentation/spring/web/WebFluxRequestHandler.java

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java

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- /opt/cola/permits/1347859843_1655733477.6825383/0/spring-beans-5-3-21-sources-jar/org/springframework/beans/support/MutableSortDefinition.java
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- /opt/cola/permits/1347859843_1655733477.6825383/0/spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
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* /opt/cola/permits/1347859843_1655733477.6825383/0/spring-beans-5-3-21-sources-jar/org/springframework/beans/PropertyEditorRegistry.java
* /opt/cola/permits/1347859843_1655733477.6825383/0/spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.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

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
org.apache.tomcat:tomcat-util-scan

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.745 apache-aries-util 1.1.3
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1.746 python 3.6.0

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

History of the software
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://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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Mersenne Twister

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

The `mod: `_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  - Samuel Neves (supercop/crypto_auth/siphash24/little)
  - djb (supercop/crypto_auth/siphash24/little2)
  - Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

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----------------
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cfuhash

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEventHandler.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementWrapper.java
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  jar/javafx/xml/bind/JAXBPermission.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
  jar/javafx/xml/bind/WhiteSpaceProcessor.java
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* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/spi/support/FileServiceLog.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/spi/support/ConfigurationNotifier.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/juli/package-info.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/avalon/package-info.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/spi/support/LogReaderServiceImpl.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/spi/support/package-info.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/jcl/package-info.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/jbosslogging/package-info.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/spi/support/RegisteredService.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/apache/commons/logging/package-info.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/PaxLoggingManagerAwareLogger.java

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* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/apache/log4j/xml/XSLTLayout.java
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* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/log4jv2/Log4jv2ThreadContextMap.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/apache/logging/log4j/util/StackLocator.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/apache/logging/log4j/LogManager.java
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* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/ops4j/pax/logging/log4jv2/Log4jv2LoggerContextFactory.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-jar/org/apache/logging/log4j/util/StackLocatorUtil.java

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org.apache.logging.log4j.util.PaxPropertySource

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* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-sources-
  jar/org/ops4j/pax/logging/PaxLogger.java
* /opt/cola/permits/1283126512_1646678399.43/0/pax-logging-api-1-12-0-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>*

* [@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>*

*<p>*

* 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;
*     *
*     *     {@code @Override}
*     *     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*     *         if (message instanceof LoginMessage) {
*     *             // your implementation here
*     *         }
*     *     }
*     *
*     * }
* *
* </pre>*

*<br>
authenticate((LoginMessage) message);
<b>loggedIn = true;</b>
} else (message instanceof GetDataMessage) {
  if (<b>loggedIn</b>) {
    ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  } else {
    fail();
  }
}

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

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

Using {@link 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 {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:

public interface Message {
// your methods here
}

public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
  private final {@link AttributeKey}<{@link Boolean}> auth = AttributeKey.valueOf("auth");

  {@code @Override}
  public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
    Attribute<{@link Boolean}> attr = ctx.attr(auth);
    ...
* if (message instanceof LoginMessage) {
*     authenticate((LoginMessage) o);
*     str attr.set(true);
* } else (message instanceof GetDataMessage) {
*     if (Boolean.TRUE.equals(attr.get())) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*     } else {
*         fail();
*     }
* }
* ...
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/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources.jar/io/netty/channel/pool/DefaultMaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources.jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources.jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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jar/io/netty/bootstrap/BootstrapConfig.java
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jar/io/netty/channel/socket/DuplexChannel.java
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org.eclipse.jetty.toolchain:jetty-schemas

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1.768 tdb 1.4.3-0ubuntu0.20.04.1

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1.770 simpleclient 0.0.23

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1.782 scala 2.13.3

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function:  `case (a, b) => ...`
val x: ((Int, Int) => Int) = (((a, b)) => a)
^  
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function:  `case (param1, param2) => ...`
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
^  
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function:  `case (param1, ..., param3) => ...`
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^  
3 errors
Scala includes the jQuery library:

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 * Poly1305 message authentication code, designed by D. J. Bernstein.
 * <p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
 * <p>
 * The polynomial calculation in this implementation is adapted from the public domain <a
 * href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
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 * @see Poly1305KeyGenerator
 */

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 * SPHINCS-256 signer.
 * <p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
 * the digests used
 * for message hashing and tree construction are now configurable (within limits...) and that the implementation
produces
* detached signatures.
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/

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/**
 * Magic value for proprietary OpenSSH private key.
 ***/

Found in path(s):
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java
1.789 isl 0.22-r0

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1.797 simpleclient 0.15.0

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* /opt/cola/permits/1332541519_1653371833.439189/0/simpleclient-0-15-0.jar/META-INF/maven/io.prometheus/simpleclient/pom.xml
No license file was found, but licenses were detected in source scan.
Manifest-Version: 1.0
Bnd-LastModified: 1644098851622
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: Core instrumentation library for the simpleclient.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient
Bundle-SymbolicName: io.prometheus.simpleclient
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client;uses="io.prometheus.client.exemplars";version="0.15.0",io.prometheus.client.exemplars;uses="io.prometheus.client.exemplars.tracer.common";version="0.15.0"
Import-Package: io.prometheus.client.exemplars.tracer.common;version="[0.15,1)" ,io.prometheus.client.exemplars.tracer.otel;version="[0.15,1)" ,io.prometheus.client.exemplars.tracer.otel_agent;version="[0.15,1)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/1332541519_1653371833.439189/0/simpleclient-0-15-0-jar/META-INF/MANIFEST.MF

1.798 py3-six 1.16.0-r0

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1.800 asm 5.2

1.801 javax-websocket-server-impl

9.4.28.v20200408

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

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* org.eclipse.jetty.orbit:javax.mail.glassfish
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

---
Oracle OpenJDK

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

* java.sun.security.ssl

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

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

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Apache

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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invmod.pod
isprime.pod
lap.pod
mpi-test.pod
prime.txt
prng.pod
This file contains a list of people who've made non-trivial contribution to the Google C++ Testing Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

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/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* */
/* */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
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/* */
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MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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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/PreferredDirectByteBufAllocator.java
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-jar/netty_unix_buffer.c
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-jar/netty_unix_buffer.h
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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/UnixChannelUtil.java
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jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-
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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/DatagramSocketAddress.java
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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/Errors.java
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1.825 byte-buddy 1.10.22

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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

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Oracle

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

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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:jettyschemas

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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.

1.828 py3-six 1.15.0-r1
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1.848 jackson-databind 2.12.6.1
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

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* java.sun.security.ssl

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

Apache

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

MortBay

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/validators/NoValidator.java
* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/IParameterValidator2.java
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* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/FileConverter.java
* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/converters/BooleanConverter.java
* /opt/cola/permits/1135935291_1613638685.79/0/jcommander-1-72-sources-2.jar/com/beust/jcommander/ParameterDescription.java
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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

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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
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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**1.865 binutils 2.37-r3**

**1.865.1 Available under license :**

(This file is under construction.)*-* text -*.-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.)
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or 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.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
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* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
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jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

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jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-
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jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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  jar/io/netty/handler/codec/AsciiHeadersEncoder.java
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* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-
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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 Base64 Encoder/Decoder</a>.

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 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" |
+--------+----------------+      +--------+----------------+
```

**2 bytes length field at offset 0, 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 `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" |
+--------+----------------+      +----------------+
```

**2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message**

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 `lengthAdjustment`. Because the length value in this example message is always greater than the body length by `2`, we specify `-2`
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* &lt;b&gt;lengthAdjustment&lt;/b&gt;  = &lt;b&gt;-2&lt;/b&gt; (= 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>
* 
* &lt;h3&gt;3 bytes length field at the end of 5 bytes header, do not strip header&lt;/h3&gt; 
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. &lt;tt&gt;lengthAdjustment&lt;/tt&gt; is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* &lt;b&gt;lengthFieldOffset&lt;/b&gt;  = &lt;b&gt;2&lt;/b&gt; (= the length of Header 1)
* &lt;b&gt;lengthFieldLength&lt;/b&gt;  = &lt;b&gt;3&lt;/b&gt;
* 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>
* 
* &lt;h3&gt;3 bytes length field at the beginning of 5 bytes header, do not strip header&lt;/h3&gt; 
* 
* 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 &lt;tt&gt;lengthAdjustment&lt;/tt&gt; so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* &lt;b&gt;lengthAdjustment&lt;/b&gt;  = &lt;b&gt;2&lt;/b&gt; (= 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 |
* +-----------------+-----------------+      +-----------------+-----------------+
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 \texttt{lengthFieldOffset} and the extra
header affects the \texttt{lengthAdjustment}. We also specified a non-zero
\texttt{bytesToStrip} 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 \texttt{0} for \texttt{bytesToSkip}.

\begin{verbatim}
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| 0x0010 | 0xFE| "HELLO, WORLD" |    | 0xFE| "HELLO, WORLD" |
\end{verbatim}

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 \texttt{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.

\begin{verbatim}
lengthFieldOffset   = 1
lengthFieldLength   = 2
lengthAdjustment    = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

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

Found in path(s):
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* /opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
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  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
  */opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
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  jar/io/netty/handler/codec/ProtobufVarint32LengthFieldPrepender.java
  */opt/cola/permits/1346931577_1655514414.9503126/0/netty-codec-4-1-78-final-sources-
  jar/io/netty/handler/codec/ProtobufVarint32FrameDecoder.java
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  jar/io/netty/handler/codec/ProtobufEncoderNano.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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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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1.875 karaf-branding 7.0.7
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Manifest-Version: 1.0
Bnd-LastModified: 1602253454480
Build-Jdk: 11.0.8
Built-By: jenkins
Bundle-Description: OpenDaylight is leading the transformation to Open
Software Defined Networking (SDN). For more information, please see
https://www.opendaylight.org
Bundle-DocURL: https://www.opendaylight.org
Bundle-ManifestVersion: 2
Bundle-Name: OpenDaylight :: Karaf :: Branding
Bundle-SymbolicName: karaf.branding
Bundle-Vendor: OpenDaylight
Bundle-Version: 7.0.7
Created-By: Apache Maven Bundle Plugin
Export-Package: org.apache.karaf.branding;version="7.0.7"
Spring-Context: *
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1117164847_1617612110.4/0/karaf-branding-7-0-7-jar/META-INF/MANIFEST.MF

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1.885 libffi 3.3-r2

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maven-resolver-util (1.1.1)

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OSGi Service Platform Core Companion Code (6.0)

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plexus-io (3.0.0)

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README for release 6b of 27-Mar-1998

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change.log Version-to-version change highlights.

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structure.doc Overview of the JPEG library's internal structure.
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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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by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


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

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

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

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

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

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

ARCHIVE LOCATIONS

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

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

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

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

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

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

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

FILE FORMAT WARS

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

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF 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
Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

**TO DO**

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

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

As always, speeding things up is of great interest.

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

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

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

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

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

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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1.893 zlib 1.2.11.dfsg-2ubuntu1.2

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.894 uritemplate 4.1.1

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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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.896 simpleclient-common 0.10.0
1.896.1 Available under license:
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 161158265816
Build-Jdk: 1.8.0_275
Built-By: bbrazil
Bundle-Description: Common code used by various modules of the Simpleclient.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.10.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses="io.prometheus.client";version="0.10.0"
Import-Package: io.prometheus.client;version="[0.10,1)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/1144886525_1620979830.65/0/simpleclient-common-0-10-0-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

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* /opt/cola/permits/1144886525_1620979830.65/0/simpleclient-common-0-10-0-jar/META-INF/maven/io.prometheus/simpleclient_common/pom.xml

1.897 httplib 0.20.4
1.897.1 Available under license:

Httplib2 Software License

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1.898 vertx-core 4.3.1

1.898.1 Available under license:

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# Core commands
io.vertx.core.impl.launcher.commands.RunCommandFactory
io.vertx.core.impl.launcher.commands.VersionCommandFactory
io.vertx.core.impl.launcher.commands.BareCommandFactory

# Background application control
io.vertx.core.impl.launcher.commands.ListCommandFactory
io.vertx.core.impl.launcher.commands.StartCommandFactory
io.vertx.core.impl.launcher.commands.StopCommandFactory

Found in path(s):
* /opt/cola/permits/1361029212_1657568289.1122086/0/vertx-core-4-3-1-jar/META-INF/services/io.vertx.core.spi.launcher.CommandFactory
No license file was found, but licenses were detected in source scan.

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1.899 aop-alliance 2.5.0-b42

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1.900 py3-distro 1.6.0-r0
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1.901 ops4j-base-exec 1.5.1
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src/main/java/org/apache/activemq/utils/Base64.java

1.904 cachecontrol 0.12.10
1.904.1 Available under license :

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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

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_

.. _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
Classifier: License :: OSI Approved :: Apache Software License
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/1224936282_1636188730.46/0/cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO
* /opt/cola/permits/1224936282_1636188730.46/0/cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/PKG-INFO
Apache Aries JPA Specification 2.1 API
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  jar/io/netty/handler/codec/EmptyHeaders.java
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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/compression/CompressionUtil.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/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/FastLzFrameEncoder.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/json/JsonObjectDecoder.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/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/DecoderrResultProvider.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/DefaultHeadersImpl.java
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  jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
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  jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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  jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
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jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/string/package-info.java
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* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/MessageToMessageDecoder.java
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* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/MessageToByteEncoder.java
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* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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* /opt/cola/permits/1301894864_1649303999.02/netty-codec-4-1-75-final-sources-1.jar/io/netty/handler/codec/serialization/ReferenceMap.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>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
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*/
/**
* 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 <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
 *
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength = 2
* \(<b>\text{lengthAdjustment}</b> = \langle b\rangle - 2 \langle b\rangle \) (= 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>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \(<tt>\text{lengthAdjustment}</tt>\) is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* \(<b>\text{lengthFieldOffset} = 2 \) (= the length of Header 1)
* \(<b>\text{lengthFieldLength} = 3</b>\)
* \(<b>\text{lengthAdjustment} = 0</b>\)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive \(<tt>\text{lengthAdjustment}</tt>\) so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* \(<b>\text{lengthFieldOffset} = 0 \</b>\)
* \(<b>\text{lengthFieldLength} = 3</b>\)
* \(<b>\text{lengthAdjustment} = 2 \)</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<h3>
  *
  * This is a combination of all the examples above. There are the prepended
  * header before the length field and the extra header after the length field.
  * The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
  * header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
  * <tt>initialBytesToStrip</tt> to strip the length field and the prepended
  * header from the frame. If you don't want to strip the prepended header, you
  * could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
  * <pre>
  * lengthFieldOffset   = 1 (= the length of HDR1)
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
  * <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
  *
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +----------------+--------+----------------+      +----------------+--------+----------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +----------------+--------+----------------+
  *
  </pre>
  *
  * ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field, the length field
  * represents the length of the whole message<h3>
  *
  * Let's give another twist to the previous example. The only difference from
  * the previous example is that the length field represents the length of the
  * whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
  * Please note that we don't need to take the length of HDR2 into account
  * because the length field already includes the whole header length.
  * <pre>
  * lengthFieldOffset   = 1
  * lengthFieldLength   = 2
  * <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
  * <b>initialBytesToStrip</b> = <b>3</b>
  *
  * BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  * +----------------+--------+----------------+      +----------------+--------+----------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +----------------+--------+----------------+
  *
  </pre>
  *
  @see LengthFieldPrepender
*/
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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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## MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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

This code has the following dependencies
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http2lib - MIT License

1.918 jetty-servlets 8.1.14.v20131031

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* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-jar/org/ops4j/pax/cdi/extension/api/runtime/dto/ReferenceDTO.java

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* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-jar/org/ops4j/pax/cdi/extension/impl/context/SingletonScopeContext.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-jar/org/ops4j/pax/cdi/extension/impl/BundleEventBridge.java

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* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-jar/org/ops4j/pax/cdi/extension/impl/BundleEventBridge.java
jar/org/ops4j/pax/cdi/extension/impl/support/DelegatingInjectionPoint.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/api/OsgiExtension.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/api/runtime/CdiOsgiRuntime.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/IterableInstance.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/Filters.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/ComponentDescriptor.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/ObjectSelector.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/Registry.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/ComponentRegistry.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/Factory.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/Types.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/PrivateRegistryWrapper.java
* /opt/cola/permits/1092524862_1602546947.78/0/pax-cdi-extension-1-1-3-sources-
jar/org/ops4j/pax/cdi/extension/impl/support/DelegatingBeanAttributes.java

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  jar/org/ops4j/pax/cdi/extension/impl/ServiceEventBridge.java

1.920 pyrsistent 0.16.0

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1.921 py3-appdirs 1.4.4-r2

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1.922 javassist 3.24.0-GA

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/*opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/BinExpr.java
/*opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/util/HotSwapper.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/FactoryHelper.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/SyntaxError.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationVisitor.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java
1.923 jetty 8.1.14.v20131031

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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)
 */

/*
 * @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/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2.jar/org/eclipse/jetty/server/AbstractConnector.java
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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/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2.jar/org/eclipse/jetty/server/Connector.java
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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.
 */

Found in path(s):
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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling [ @link Connector#isConfidential(Request) ], or false
 * if there is no connector
 */

Found in path(s):
* /opt/cola/permits/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2-
  jar/org/eclipse/jetty/server/AbstractHttpConnection.java
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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/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2-jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties
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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.
*/

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* /opt/cola/permits/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2.jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.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.

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* /opt/cola/permits/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2.jar/org/eclipse/jetty/server/jmx/AbstractConnector-mbean.properties
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* /opt/cola/permits/1000765249_1606975596.69/0/jetty-server-8-1-14-v20131031-sources-2-
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===============

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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersion.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/LoginEndpoint.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/LoginEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Contact.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/StringVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiInfo.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/OperationNameGenerator.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListingReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableValues.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/ApiIgnore.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRule.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java

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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ImplicitGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OAuthBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/PathSelectors.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Xml.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ImplicitGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/VendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ClientCredentialsGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/GrantType.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/PathProvider.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationScope.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceListing.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/CredentialsGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableListValues.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/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/DocumentationReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ServerVariable.java

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- /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ListVendorExtension.java
- /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersionCapability.java
- /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassNotPresentInClassPathCondition.java

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Built-By: fabian
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Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Servlet - Common
Bundle-SymbolicName: io.prometheus.simpleclient_servlet_common
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.servlet.common.filter;uses:="io.prometheus.client.servlet.common.adapter";version="0.15.0",io.prometheus.client.servlet.common.adapter;version="0.15.0",io.prometheus.client.servlet.common.exporter;uses:="io.prometheus.client,io.prometheus.client.servlet.common.adapter";version="0.15.0"
Import-Package: io.prometheus.client;version="[0.15,1)",io.prometheus.client.exporter.common;version="[0.15,1)
Tool: Bnd-2.1.0.20130426-122213

1.967 freemarker 2.3.31

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src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
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Coverage.py was originally written by Gareth Rees, and since 2004 has been 
extended and maintained by Ned Batchelder. 

Other contributions, including writing code, updating docs, and submitting 
useful bug reports, have been made by: 

Abdeali Kothari 
Adi Roiban 
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * [{@linkplain #value specified conditions}] match.
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [{@link Condition}] for details).
 * <p>The [{@code @Conditional}] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [{@code @Component}], including [{@link Configuration @Configuration}] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any [{@link Bean @Bean}] method</li>
 * </ul>
 * <p>If a [{@code @Configuration}] class is marked with [{@code @Conditional}],
 * all of the [{@code @Bean}] methods, [{@link Import @Import}] annotations, and
 * [{@link ComponentScan @ComponentScan}] annotations associated with that
 * class will be subject to the conditions.
 * <p><strong>NOTE</strong>: Inheritance of [{@code @Conditional}] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].

* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/ui/ModelExtensions.kt

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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/ApplicationEventPublisher.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/ui/context/ThemeSource.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/format/Formatter.java
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jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-
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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-
jar/org/springframework/context/HierarchicalMessageSource.java
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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
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jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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jar/org/springframework/jmx/export/SpringModelMBean.java
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 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 *
 * <p>This [@code FactoryBean] is a direct alternative to [@link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's [@link MBeanServer].
 *
@code AdminServiceFactory

@code MBeanFactory

@since 2.0.3

@see javax.management.MBeanServer

@see MBeanServerFactoryBean

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* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/validation/BeanPropertyBindingResult.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/AsyncAnnotationBeanPostProcessor.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/validation/BeanPropertyBindingResult.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/scheduling/annotation/EnableAsync.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
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* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
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* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/DependsOn.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
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jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/format/support/FormattingConversionService.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/CachedExpressionEvaluator.java
* /opt/cola/permits/1346652488_1655478933.3486820/spring-context-5-3-21-sources-
jar/org/springframework/format/datetime/standard/YearFormatter.java

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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java
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* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /opt/cola/permits/1346652488_1655478933.348682/0/spring-context-5-3-21-sources-jar/org/springframework/context/i18n/LocaleContext.java
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/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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1.982 google-api-python-client 0.1.3

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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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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h.  The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked.  Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the 'crontab' program will do this the first time they
run if they don't exist.  You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile.  These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already.  /usr/local/man is
where I keep my man pages, but I have the source for 'man' and you probably
do not.  Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions.  (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)
LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab` command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstall 'ed with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
bUILD new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
1.994 rfc6643-model-api 5.0.7

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1.997 sqlite-jdbc 3.27.2.1

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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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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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The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
The following artifacts are ASL2 licensed.

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

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

org.eclipse.jetty.toolchain:jetty-schemas
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1.1001 markupsafe 2.1.1

1.1001.1 Available under license :
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Found in path(s):
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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/
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author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
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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
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = 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
No license file was found, but licenses were detected in source scan.

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
Maintainer: Pallets
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('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')

>>> # 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 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>

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------

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`_.

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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/
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* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/src/MarkupSafe.egg-info/PKG-INFO
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1.1004 python 3.9.5-r1

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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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1.1007 activation 1.2.2

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1.1021 sal-cluster-admin-api 2.0.6
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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

------
Oracle

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

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

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

------

OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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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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Bundle-Name: accessors-smart
Bundle-SymbolicName: net.minidev.accessors-smart
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Bundle-Version: 2.4.8
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.asm;uses="org.objectweb.asm";version="2.4"
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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All Python releases are Open Source (see http://www.opensource.org for
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Julian Seward, Cambridge, UK.
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# Vim Installer and Archives (Win32 and Win64)

This is a project for building Nightly Vim Windows build snapshots automatically ([more information](https://vim.fandom.com/wiki/Where_to_download_Vim)).

[Download](https://github.com/vim/vim-win32-installer/releases/latest) and execute the most recent `gvim_x.y.pppp_x86.exe` file to install Vim (where `x.y` is the release version and `pppp` is the patch number). The exe files contain the (32bit) installer while the .zip files contain an archive of the 32bit (`_x86`) or 64bit versions (`_x64`). To install it, extract the archive and update your PATH variable. The installer will do that automatically and provide some additional extensions (e.g. Edit with Vim menu).

The `gvim...pdb.zip` file only contains the corresponding pdb files for debugging the binaries.

The `gvim.<version>.yml` contains the corresponding winget manifest (as yaml) which might in the future be used to upload to the winget package repository. Currently (12/2020), there does not seem to exist an automatic workflow, so you can use this to contribute to winget([https://github.com/microsoft/winget-pkgs]), but you may want to replace the URL and hash of the unsigned 64bit installer by the signed one, if it exists (this is currently not automated).

Note: Due to the expiration of the old certificate, a new certificate to sign the binaries has been created and will be used starting with the next release after April 14th, 2020.
This may cause a SmartScreen warning by Windows because the certificate is new. Hopefully this warning will vanish, once the certificate has been used more widely.
If you want to avoid this warning, you can use the latest release with the old certificate [v8.2.577](https://github.com/vim/vim-win32-installer/releases/tag/v8.2.0577).

If you need a dynamic interface to Perl, Python2, Python3, Ruby, <del>TCL, </del> Lua or Racket/MzScheme, make sure you also install the following. Vim will work without it, but some Plugin might need this additional dependency. (e.g. [Gundo](https://github.com/sjl/gundo.vim) needs a working Python2 installation, [Command-T](https://github.com/wincent/command-t) needs a working Ruby installation and [Neocomplete](https://github.com/Shougo/neocomplete.vim) needs a working Lua installation). This means, those interpreters have to be installed in addition to Vim. Without it Vim won't be able to use that feature!
You can find those interpreters here:

* [Strawberry Perl](http://strawberryperl.com/) 5.32
* <del>[ActiveTcl](http://www.activestate.com/activetcl/downloads) 8.6.6</del> (currently disabled)
* [LuaBinaries](http://luabinary.sourceforge.net/download.html) 5.4
* [Python](https://www.python.org/downloads/) 2.7
* [Python 3](https://www.python.org/downloads/) 3.10
* [Racket](https://download.racket-lang.org/) 8.3 (BC)
* [RubyInstaller](http://rubyinstaller.org/downloads/) 3.0

Make sure that you install the same architecture (32bit/64bit) for those libraries that matches your Vim installation.

Additionally the binaries include the new terminal feature for Vim and therefore contain the winpty.dll (32bit or 64bit) and the winpty-agent.exe from the [winpty repository](https://github.com/rprichard/winpty). This feature is currently considered experimental. Read the help at [:h terminal.txt](http://vimhelp.appspot.com/terminal.txt.html) for more information.
For supporting better encryption, it comes with the libsodium.dll from the [libsodium repository](https://github.com/jedisct1/libsodium/releases/1.0.18-RELEASE)
See the help at [:h 'cryptmethod'](https://vimhelp.org/options.txt.html#%27cryptmethod%27) for more details.

Note: The zip archive might be considered unsecure in Windows, causing Windows to display a dialog box "These files might be harmful to your computer...". If you want to disable this warning, you need to "unblock" the zip file. Do that in the properties dialog of the zip file, first tab General and look for the security section and click on "Unblock". However using a signed release might prevent that behaviour in Windows eventually (see also next paragraph).

Creating a signed binary and installer still requires manual effort, therefore not every release will be signed. They will be provided on a best effort basis occasionally. Signing the releases is provided by [SignPath](https://about.signpath.io/). If there haven't been any signed
releases for a long time, feel free to request a new one by creating an [issue](https://github.com/vim/vim-win32-installer/issues) here.

Note: If you want to test some patches, place them in the patch directory with the extension `.patch`. They will be applied before building Vim and the binary will then be tested against the test suite.

See: [Vim Repository](https://github.com/vim/vim) for the Vim source.

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* /opt/cola/permits/1357194480_1658151447.125776/0/vim-win32-installer-8-2-5069-tar-gz/vim-win32-installer-8.2.5069/README.md

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 *<p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
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 * produces
 * detached signatures.
 *</p>
 *</p>
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jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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  jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java
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/**
  * Magic value for proprietary OpenSSH private key.
  **/

Found in path(s):
* /opt/cola/permits/1200725531_1630953294.04/0/bcprov-ext-jdk15on-1-66-sources-
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// now keep space is free to use

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  jar/org/bouncycastle/crypto/gmss/GMSSPrivateKeyParameters.java
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/**
  * Poly1305 message authentication code, designed by D. J. Bernstein.
  * <p>
  * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
  * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
  * effective key bits) used in the authenticator.
  * <p>
  * The polynomial calculation in this implementation is adapted from the public domain <a
  * href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
  * by Andrew M (@floodyberry).
  * @see Poly1305KeyGenerator
  */

Found in path(s):
* /opt/cola/permits/1200725531_1630953294.04/0/bcprov-ext-jdk15on-1-66-sources-
  jar/org/bouncycastle/crypto/macs/Poly1305.java
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /opt/cola/permits/1200725531_1630953294.04/0/bcprov-ext-jdk15on-1-66-sources-
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1.1048 yang-model-api 5.0.7

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1.1063 pcre 8.39-12ubuntu0.1
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1.1064 geronimo-jaxrpc-1-1-spec 2.1

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jar/lombok/eclipse/handlers/HandleBuilder.java
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jar/lombok/javac/java8/CommentCollectingTokenizer.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/TestEclipse.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/TestJavac.java

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  jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilListSingularizer.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
  jar/lombok/eclipse/handlers/singulars/EclipseGuavaSetListSingularizer.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
  jar/lombok/eclipse/handlers/singulars/EclipseGuavaMapSingularizer.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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  jar/lombok/eclipse/handlers/singulars/EclipseJavaUtilMapSingularizer.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/eclipse/MyEclipseLocationProvider.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/delombok/PrettyPrinter.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleStandardException.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/HandleWithBy.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/eclipse/RhcLocationProvider.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/HandleSuperBuilderRemove.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleWithBy.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleWithBy.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleWithBy.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleWithBy.java
jar/lombok/javac/handlers/HandleJacksonized.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/javac/handlers/HandleBuilderRemove.java

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*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/javac/TreeMirrorMaker.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/bytecode/AsmUtil.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/javac/handlers/HandleDelegate.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/javac/handlers/HandleVal.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/javac/handlers/HandleConstructor.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/eclipse/agent/PatchVal.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/javac/handlers/HandleLog.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/bytecode/PostCompilerApp.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Cleanup.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/SneakyThrows.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/InstallerGUI.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Lombok.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Data.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/eclipse/EclipseProductLocation.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Getter.java
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 * /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/singualars/JavacJavaUtilSingularizer.java
 * /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/singualars/JavacJavaUtilListSetSingularizer.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/ImportList.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/EclipseImportList.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/JavacTreeMaker.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/NoArgsConstructor.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/extern/log4j/Log4j.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/Delegate.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/extern/apachecommons/CommonsLog.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/RequiredArgsConstructor.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
  jar/lombok/javac/handlers/singualrs/JavacGuavaSetListSingularizer.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/TransformEclipseAST.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/delombok/ant/DelombokTask.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/AnnotationProcessor.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/HandlerLibrary.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/AbstractRunTests.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/HandlerLibrary.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/delombok/DocCommentIntegrator.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/ToString.java
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jar/lombok/core/handlers/LoggingFramework.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/ConfigurationValueType.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/SuperBuilder.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/eclipse/STS4LocationProvider.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/CorruptedIdeLocationException.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/RuntimeDependencyInfo.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/WindowsDriveInfo.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/installer/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/AppleNativeLook.java
  
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/AlreadyHandledAnnotations.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/Javac9JavaFileObjectWrapper.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/FieldSelect.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/JavacResolution.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/Java8/CommentCollectingScannerFactory.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/NullAnnotationLibrary.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/ConfigurationFile.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/WithBy.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/MessagerDiagnosticsReceiver.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/bytecode/ClassFileMetaData.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/InterceptingJavaFileManager.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources.jar/lombok/core/runtimeDependencies/CreateLombokRuntimeApp.java
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    include/libssh/crypto.h
    include/libssh/dh.h
    include/libssh/ecdh.h
    include/libssh/ed25519.h
    include/libssh/gssapi.h
    include/libssh/kex.h
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    include/libssh/legacy.h
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    include/libssh/libgcrypt.h
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include/libssh/string.h
include/libssh/threads.h
include/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
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src/kex1.c
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src/libgcrypt.c
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src/messages.c
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src/packet_crypt.c
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src/pki_container_openssh.c
src/pki_ed25519.c
src/server.c
src/session.c
src/sftpserver.c
src/socket.c
src/string.c
src/threads.c
src/threads/pthread.c
src/wrapper.c
tests/benchmarks/bench_raw.c
tests/benchmarks/bench_scp.c
tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
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Files: examples/exec.c
        examples/senddata.c
        examples/CMakeLists.txt
        include/libssh/ssh1.h
        include/libssh/ssh2.h
        tests/authentication.c
        tests/benchmarks/bench1.sh
        tests/benchmarks/bench2.sh
        tests/chmodtest.c
        tests/client/torture_proxycommand.c
        tests/client/torture_sftp_dir.c
        tests/client/torture_sftp_read.c
        tests/cmdline.c
        tests/connection.c
        tests/generate.py
        tests/sftp_stress/main.c
        tests/test_exec.c
        tests/test_ssh_bind_accept_fd.c
        tests/test_tunnel.c
        tests/tests.h
        tests/unittests/torture_buffer.c
        tests/unittests/torture_callbacks.c
        tests/unittests/torture_channel.c
        tests/unittests/torture_init.c
        tests/unittests/torture_isipaddr.c
        tests/unittests/torture_keyfiles.c
        tests/unittests/torture_list.c
        tests/unittests/torture_misc.c
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Files: examples/authentication.c
        examples/connect_ssh.c
        examples/examples_common.h
        examples/knownhosts.c
        examples/libssh_scp.c
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examples/libsshpp_noexcept.cpp
examples/proxy.c
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tests/pkd/pkd_hello.c
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       include/libssh/options.h
       src/agent.c
       src/callbacks.c
       src/config.c
       tests/client/torture_forward.c
       tests/client/torture_request_env.c
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  cmake/Modules/FindArgp.cmake
  cmake/Modules/FindCMocka.cmake
  cmake/Modules/FindGCrypt.cmake
  cmake/Modules/FindGSSAPI.cmake
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3.1.0 / 2017-09-26
==================
* Add `DEBUG_HIDE_DATE` env var (#486)
* Remove ReDoS regexp in `%o` formatter (#504)
* Remove "component" from package.json
* Remove `component.json`
* Ignore package-lock.json
* Examples: fix colors printout
* Fix: browser detection
* Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24
==================
* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08
==================
* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document 'enabled' flag (#465)
* Addition: add 256 colors mode (#481)
* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update: refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization
* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22
==================
* remove ReDoS regexp in `%o` formatter (#504)

2.6.8 / 2017-05-18
* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16

* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27

* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20

* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piaimancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10

* Fix: Module’s `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 “Expected identifier” error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28
* Fix: added better null pointer checks for browser useColors (@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25
==================

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20
==================

* Fix: babel-core compatibility

2.5.0 / 2016-12-20
==================

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378, @yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
==================

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
* Improvement: rm non-maintainted `dist/` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
==================

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
==================
* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14

* Fix: browser colors (#367, @tootallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@tootallnate)
* Feature: configurable util.inspect()`options for NodeJS (#327, @tootallnate)
* Feature: %O'(big O) pretty-prints objects (#322, @tootallnate)
* Improvement: allow colors in workers (#335, @botverse)
* Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09

* Fix: Catch JSON.stringify()` errors (#195, Jovan Alleyne)
* Fix: Returning `localStorage` saved values (#331, Levi Thomason)
* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09

* Fix: be super-safe in index.js as well (@TooTallNate)
* Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09

* Fix: Added electron compatibility (#324, @paulcbetts)
* Improvement: Added performance optimizations (@tootallnate)
* Readme: Corrected PowerShell environment variable example (#252, @gimre)
* Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07

* Fix: catching `JSON.stringify()` errors (#195, Jovan Alleyne)
* Fix: returning `localStorage` saved values (#331, Levi Thomason)
* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)
* Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
* Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
* Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
* Feature: Enabled ES6+ compatible import via default export (#212, @bucaran)
* Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
* Package: Update "ms" to 0.7.2 (#315, @DevSide)
* Package: removed superfluous version property from bower.json (#207, @kkirsche)
* Readme: fix USE_COLORS to DEBUG_COLORS
* Readme: Doc fixes for format string sugar (#269, @mlucool)
* Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
* Readme: doc fixes for PowerShell (#271 #243, @exoticknight @unreadable)
* Readme: better docs for browser support (#224, @matthewmueller)
* Misc: Added yarn integration for development (#317, @thebigredgeek)
* Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
* Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
* Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09
==================
* package: update "ms" to v0.7.1 (#202, @dougwilson)
* README: add logging to file example (#193, @DanielOchoa)
* README: fixed a typo (#191, @amir-s)
* browser: expose `storage` (#190, @stephenmathieson)
* Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==================
* Updated stdout/stderr example (#186)
* Updated example/stdout.js to match debug current behaviour
* Renamed example/stderr.js to stdout.js
* Update Readme.md (#184)
* replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01
==================
* dist: recompile
* update "ms" to v0.7.0
* package: update "browserify" to v9.0.3
* component: fix "ms.js" repo location
* changed bower package name
* updated documentation about using debug in a browser
* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29
==================
* browser: use `typeof` to check for `console` existence
* browser: check for `console.log` truthiness (fix IE 8/9)
* browser: add support for Chrome apps
* Readme: added Windows usage remarks
* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
==================

* node: implement `DEBUG_FD` env variable support
* package: update "browserify" to v6.1.0
* package: add "license" field to package.json (#135, @panuhorsmalah)
* browser: use `removeItem()` to clear localStorage
* browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
* package: add "contributors" section
* node: fix comment typo
* README: list authors

1.0.0 / 2014-06-04
==================

* make ms diff be global, not be scope
* debug: ignore empty strings in enable()
* node: make DEBUG_COLORS able to disable coloring
* *: export the `colors` array
* npmignore: don't publish the `dist` dir
* Makefile: refactor to use browserify
* package: add "browserify" as a dev dependency
* Readme: add Web Inspector Colors section
* node: reset terminal color for the debug content
* node: map "%o" to `util.inspect()`
* browser: map "%j" to `JSON.stringify()`
* debug: add custom "formatters"
* debug: use "ms" module for humanizing the diff
* Readme: add "bash" syntax highlighting
* browser: add Firebug color support
* browser: add colors for WebKit browsers
* node: apply log to `console`
* rewrite: abstract common logic for Node & browsers
* add .jshintrc file

0.8.1 / 2014-04-14
==================

* package: re-add the "component" section

0.8.0 / 2014-03-30
==================

* add `enable()` method for nodejs. Closes #27
* change from stderr to stdout
* remove unnecessary index.js file

0.7.4 / 2013-11-13
==================

* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
* fix: catch localStorage security error when cookies are blocked (Chrome)
* add debug(err) support. Closes #46
* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==================

* fix package.json
* fix: Mobile Safari (private mode) is broken with debug
* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==================

* add repository URL to package.json
* add DEBUG_COLORED to force colored output
* add browserify support
* fix component. Closes #24

0.7.0 / 2012-05-04
==================

* Added .component to package.json
* Added debug.component.js build

0.6.0 / 2012-03-16
==================

* Added support for "." prefix in DEBUG [Vinay Pulim]
* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==================

* Added: humanize diffs. Closes #8
* Added `debug.disable()` to the CS variant
* Removed padding. Closes #10
* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==================

* Added browser variant support for older browsers [TooTallNate]
* Added `debug.enable('project:*')` to browser variant [TooTallNate]
* Added padding to diff (moved it to the right)
0.3.0 / 2012-01-26
================================
* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
================================
* Added wildcard support

0.1.0 / 2011-12-02
================================
* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
================================
* Initial release

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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Qt port of geosimplify.js, https://github.com/mapbox/geosimplify-js

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

## Installation

```bash
$ npm install debug
```

## Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error` for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js_](./examples/node/app.js):

```js
var debug = require('debug')('http')
 , http = require('http')
 , name = 'My App';

// fake app

dehug('booting %o', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind
Example `[worker.js]`(/examples/node/worker.js):

```js
var a = require('debug')('worker:a')
, b = require('debug')('worker:b');

function work() {
    a('doing lots of uninteresting work');
    setTimeout(work, Math.random() * 1000);
}
work();

function workb() {
    b('doing some work');
    setTimeout(workb, Math.random() * 2000);
}
workb();
```
```cmd
set DEBUG=* & node app.js
```

##### PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```cmd
$env:DEBUG = "*-not_this"
```

Example:

```cmd
$env:DEBUG='app';node app.js
```

Then, run the program to be debugged as usual.

npm script example:

```js
"windowsDebug": 
  "@powershell -Command $env:DEBUG='*';node app.js",
```

## Namespace Colors

Every debug instance has a color generated for it based on its namespace name. This helps when visually parsing the debug output to identify which debug instance a debug line belongs to.

#### Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install the `[supports-color](https://npmjs.org/supports-color)` module alongside debug, otherwise debug will only use a small handful of basic colors.

![Image](https://user-images.githubusercontent.com/71256/29092181-47f6a9e6-7c3a-11e7-9a14-1928d8a711cd.png)

#### Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting option. These are WebKit web inspectors, Firefox ([since version 31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).
## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

## Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

## Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `
`DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a ":" character. For example, `DEBUG=*,connect:*` would include all debuggers except those starting with "connect:".

## Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

<table>
<thead>
<tr>
<th><code>DEBUG</code></th>
<th>Enables/disables specific debugging namespaces.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;*&quot;</td>
<td>Enables/disables all debugging namespaces.</td>
</tr>
<tr>
<td>&quot;-&quot;</td>
<td>Disables specific debugging namespaces.</td>
</tr>
</tbody>
</table>

### Table

<table>
<thead>
<tr>
<th>Name</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;connect:bodyParser&quot;</td>
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</tr>
<tr>
<td>&quot;connect:compress&quot;</td>
<td>Enables/disables specific debugging namespaces.</td>
</tr>
<tr>
<td>&quot;connect:session&quot;</td>
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</tr>
</tbody>
</table>
__Note:__ The environment variables beginning with `DEBUG_` end up being converted into an `Options` object that gets used with `-%o/-%O` formatters. See the Node.js documentation for `util.inspect()` for the complete list.

## Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting. Below are the officially supported formatters:

<table>
<thead>
<tr>
<th>Formatter</th>
<th>Representation</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>%O</code></td>
<td>Pretty-print an Object on multiple lines.</td>
</tr>
<tr>
<td><code>%o</code></td>
<td>Pretty-print an Object all on a single line.</td>
</tr>
<tr>
<td><code>%s</code></td>
<td>String.</td>
</tr>
<tr>
<td><code>%d</code></td>
<td>Number (both integer and float).</td>
</tr>
<tr>
<td><code>%j</code></td>
<td>JSON. Replaced with the string '[Circular]' if the argument contains circular references.</td>
</tr>
<tr>
<td><code>%%</code></td>
<td>Single percent sign ('%'). This does not consume an argument.</td>
</tr>
</tbody>
</table>

### Custom formatters

You can add custom formatters by extending the `debug.formatters` object. For example, if you wanted to add support for rendering a Buffer as hex with `%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
  return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
```

## Browser Support
You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify), or just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest), if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
a('doing some work');
}, 1000);

setInterval(function(){
b('doing some work');
}, 1200);
```

## Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example `_stdout.js_`(_examples/node/stdout.js_):

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');
```
// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```js
## Extend
You can simply extend debugger
```js
const log = require('debug')('auth');
// creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');
log('hello'); // auth hello
logSign('hello'); // auth:sign hello
logLogin('hello'); // auth:login hello
```

## Set dynamically
You can also enable debug dynamically by calling the `enable()` method:
```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

deploy.enable('test');
console.log(2, debug.enabled('test'));
deploy.disable();
console.log(3, debug.enabled('test'));
```

print:
```---
1 false
2 true
3 false
---
```

Usage:

`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.
Note that calling `enable()` completely overrides previously set DEBUG variable:

```javascript
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
=> false
```

## Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the `enabled` property:

```javascript
``` javascript
const debug = require('debug')('http');

if (debug.enabled) {
    // do stuff...
}
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

## Authors

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Mesa Component Licenses

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javascript/jquery_ui
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javascript/jquery/v2_0_1
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libunwind
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libvorbis
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Libxml2, an XML C Parser

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LodePNG

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mongoose
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(A) Licensee wishes to use the Licensed Software for the purpose of developing and distributing Applications and/or Devices; and

(B) The Qt Company is willing to grant the Licensee a right to use Licensed Software for such purpose pursuant to term and conditions of this Agreement.

NOW, THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:

1. DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Applications" shall mean Licensee's software products created using the Licensed Software in connection with the Program, which may include the Redistributables, or part thereof.

"Contractor(s)" shall mean third party consultants, distributors and contractors performing services to a Party under applicable contractual arrangement.

"Customer(s)" shall mean Licensee's end users to whom Licensee, directly or indirectly, distributes copies of the Redistributables.

"Deployment Platforms" shall mean operating systems specified in the License Certificate, in which the Redistributables can be distributed pursuant to the terms and conditions of this Agreement.

"Designated User(s)" shall mean the employee(s) of Licensee or Licensee's Affiliates acting within the scope of their employment or Licensee's Contractors acting within the scope of their services for Licensee and on behalf of Licensee. Designated Users shall be named in the License Certificate.

"Development License" shall mean the license needed by the Licensee for each Designated User to use the Licensed Software under the license grant described in Section 3.1 of this Agreement.

"Development Platforms" shall mean those operating systems specified in the License Certificate, in which the Licensed Software can be used under the Development License, but not distributed in any form or used for any other purpose.

"Devices" shall mean hardware devices or products that 1) are manufactured and/or distributed by the Licensee or its Affiliates or Contractors in
connection with the Program, and (2)(i) incorporate or integrate the Redistributables or parts thereof; or (ii) do not incorporate or integrate the Redistributables at the time of distribution, but where, when used by a Customer, the main user interface or substantial functionality of such device is provided by Application(s) or otherwise depends on the Licensed Software.

"Distribution License(s)" shall mean the license required for distribution of Redistributables in accordance with the license grant described in Section 3.2(ii)-(iii) of this Agreement.

"Distribution License Packs" shall mean set of prepaid Distribution Licenses for distribution of Redistributables, as defined in The Qt Company's standard price list, quote, Purchase Order confirmation or in an appendix hereto, as the case may be.

"Initial Support Term" shall mean a time period of twelve (12) months, calculated from the effective date of this Agreement.

"Intellectual Property Rights" shall mean patents (including utility models), design patents, and designs (whether or not capable of registration), chip topography rights and other like protection, copyrights, trademarks, service marks, trade names, logos or other words or symbols and any other form of statutory protection of any kind and applications for any of the foregoing as well as any trade secrets.

"Licensee" shall mean the individual or legal entity that is party to this Agreement, as identified on the signature page hereof.

"License Certificate" shall mean a certificate accompanying the Licensed Software and generated for each Designated User respectively. License Certificate will specify the Designated User, the Development Platforms, Deployment Platforms, Program and the Term of this Agreement. The terms of the License Certificate are considered part of this Agreement and shall be updated from time to time to reflect any changes to the foregoing terms relating to Licensee's rights to the Licensed Software.

"Licensee's Records" shall mean books and records that are likely to contain information bearing on Licensee's compliance with this Agreement or the payments due to The Qt Company under this Agreement, including, but not limited to: assembly logs, sales records and distribution records.

"Licensees SDK Contractors" shall mean Contractors of Licensee, who have purchased or received SDK from the Licensee relating to the Program.

"License Fee" shall mean the fee charged to the Licensee for rights granted under the terms of this Agreement.

"Licensed Software" shall mean all versions of The Qt Company's computer
software products, online or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation, licensed to the Licensee under this Agreement. Licensed Software does not include Third Party Software (as defined in Section 4) or Open Source Qt.

"Modified Software" shall mean bug-fixes, error corrections, patches or modifications made to the Licensed Software by Licensee, including documentation related thereto.

"Online Services" shall mean any services or access to systems made available by The Qt Company to the Licensee over the Internet relating to the Licensed Software or for the purpose of use by the Licensee of the Licensed Software or Support. Use of any such Online Services is discretionary for the Licensee and some of them may be subject to additional fees.

"Open Source Qt" shall mean all versions of The Qt Company's Qt computer software products, online or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation available under the terms of the GNU Lesser General Public License, version 2.1 or later ("LGPL") or the GNU General Public License, version 2.0 or later ("GPL").

"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Program" shall mean Licensees business program for which purpose the Licensee is entitled to use the Licensed Software and grant the Licensee's SDK Contractors a right to use the Licensed Software as part of a SDK.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1, Section 1 that may be distributed pursuant to the terms of this Agreement in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"SDK" or "Software Development Kit" shall mean a combination of software modules including Licensed Software intended to be utilized in connection with the Program.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with The Qt Company's standard support terms.

"Support Renewal Term" shall mean a time period of twelve (12) months, calculated from the end of the Initial Support Term or previous Support Renewal
Term, as applicable.

“Support Term” shall mean the Initial Support Term and any possible Support Renewal Term(s) during which time the Licensee is eligible to receive for Support for the Licensed Software.

“Taxes” shall have the meaning set forth in Section 10.5.

“Term” shall mean the validity period of this Agreement, as set forth in the License Certificate.

The Qt Company shall mean:

(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd., Suite 1020, Santa Clara, CA 95054, USA.; or

(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

“Updates” shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

2. OWNERSHIP 2.1

Ownership of The Qt Company

The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

All The Qt Company's Intellectual Property Rights are and shall remain the exclusive property of The Qt Company or its licensors respectively.
2.2 Ownership of Licensee

All the Licensee's Intellectual Property Rights are and shall remain the exclusive property of the Licensee or its licensors respectively.

All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

2.3 Modified Software

Licensee may create Modified Software that breaks the source or binary compatibility with the Licensed Software. This includes, but is not limited to, changing the application programming interfaces ("API") by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries. To the extent that Licensee breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

To the extent Licensee submits Modified Software to The Qt Company ("Submitted Modified Software"), Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion. For the sake of clarity, the Licensee shall have no obligation to provide Modified Software to The Qt Company.

3. LICENSES GRANTED

3.1 Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other services to end-user Customers.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that (i) only the Designated Users may use the Licensed Software, and (ii) all Designated Users must have a valid Development License to use Licensed Software.
Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

3.2 Distribution of Redistributables

Subject to the terms of this Agreement, The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and (ii) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and (iii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications and/or Devices for their respective intended purposes.

Right to distribute the Redistributables as provided herein is conditional upon the Licensee having purchased and paid the appropriate amount of Development and Distribution Licenses from The Qt Company before distributing any Redistributables to Customers.

For the avoidance of any doubt it is specifically acknowledged and agreed that distribution of Redistributables solely as installed, incorporated or integrated into Applications for execution on the Deployment Platform(s), as specified in (i) of the first paragraph of Section 3.2 above, i.e. with no connection to Devices or intention to use in connection therewith, shall not require a Distribution License.

3.3 SDK License

The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to (i) distribute Licensed Software as a part of the SDK to Licensees SDK Contractors in connection with the Program and (ii) in connection with the Program, by itself or by Licensee's SDK Contractors, combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt, provided, however, that:

(i) the Licensees SDK Contractors are only entitled to use the Licensed Software as part of SDK and for the sole purpose of developing software for Devices that are distributed under the Program; and

(ii) Licensees SDK Contractors shall not be entitled to distribute the SDK or any part thereof to any third parties.
For the avoidance of any doubt, the distribution of such software development tools that do not contain Licensed Software shall not be covered by this Agreement.

3.4 Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

(i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

(ii) Applications and SDKs must add primary and substantial functionality to the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Applications and SDKs must not compete with the Licensed Software;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications or SDKs, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Except as expressly provided in Section 3.3, Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement);

(vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

(viii) Except as expressly provided in Section 3.3, Licensee shall not and shall cause that its Affiliates, Contractors and Licensee's SDK Contractors shall not a) in any way, combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt or b) incorporate or integrate Applications into a hardware device or product other than a Device, unless Licensee has received an
advance written permission from The Qt Company to do so. Unless specifically otherwise agreed, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software build with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered as distribution under this Agreement and dependent on compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution);

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software;

(xi) Licensee shall not take any action inconsistent with The Qt Company’s Intellectual Property Rights; and

(xii) Attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included in the Licensed Software. Such Third Party Software will be listed in the "∼/src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third Party Software is in all respects subject to applicable license terms of applicable third party right holders. 5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality marked or
otherwise stated as "Technology Preview", "Alpha", "Beta" or similar designation. Such pre-release code may be present in order to provide experimental support for new platforms or preliminary versions of one or more new functionalities. The pre-release code may not be at the level of performance and compatibility of a final, generally available, product offering of the Licensed Software. The pre-release parts of the Licensed Software may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make pre-release code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any pre-release code, but any use thereof is exclusively at Licensee’s own risk and expense.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

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Except as set forth above, the Licensed Software is licensed to Licensee "as is".

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED. ALL USE OF AND RELIANCE ON THE LICENSED SOFTWARE IS AT THE SOLE RISK OF AND RESPONSIBILITY OF LICENSEE.

Licensee's exclusive remedy and The Qt Company's entire liability for Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1 Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, (II) LICENSEE'S DUTY TO PAY ALL APPLICABLE LICENSE FEES AND COMPENSATIONS, AND (III) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL,
CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, (II) LICENSEE’S DUTY TO PAY ALL APPLICABLE LICENSE FEES AND COMPENSATIONS, AND (III) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY’S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES RECEIVED BY THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

7.2 Licensees Indemnification

Licensee shall indemnify and hold harmless The Qt Company from and against any claim, injury, judgment, settlement, loss or expense, including attorneys’ fees related to: (a) Licensee's misrepresentation in connection with The Qt Company or the Licensed Software or breach of this Agreement, (b) the Application or Device (except where such cause of liability is solely attributable to the Licensed Software).

8. SUPPORT, UPDATES AND ONLINE SERVICES

Licensee will be eligible to receive Support and Updates and to use the Online Services during the Support Term. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

Licenses granted under this Agreement shall include a prepaid Initial Support Term.

Initial Support Term shall be automatically extended to one or more Support Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the Support, such notification to be provided to the other Party no less than ninety (90) days before expiry of the Initial Support Term or respective Support Renewal Term. During any such Support Renewal Term Support shall be available subject to prices and terms agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Support Renewal Term. From time to time The Qt Company may change Support provided within each Support plan; provided that during the respective Initial Support Term or Support Renewal Term (as the case may be), the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.
Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to the Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1 License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be. The License Fees shall not be refunded or claimed as a credit, even on the ground that Distribution Licenses are not used, i.e. Redistributables are not actually distributed corresponding to the Distribution Licenses purchased, or for any other reason.

10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3 Distribution

License Packs Unless otherwise agreed, the Distribution Licenses are bought by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for installing, bundling or integrating (all jointly "installing") the Redistributables with the Devices or for otherwise distributing the Redistributables in accordance with this Agreement.

Each time Licensee "installs" or distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may "install" copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

Redistributables will be deemed to have been "installed" into a Device when one of the following circumstances shall have occurred: a) the Redistributables have been loaded onto the Device and used outside of the Licensee's premises or b) the Device has been fully tested and placed into Licensee's inventory (or sold) for the first time (i.e., Licensee will not be required to use (or pay for) more than one Distribution License for each individual Device, e.g. in a situation where a Device is returned to Licensee's inventory after delivery to a distributor or sale to a Customer). In addition, if Licensee includes a back-up copy of the Redistributables on a CD-ROM or other storage medium along with the product, that backup copy of the Redistributables will not
be deemed to have been "installed" and will not require an additional Distribution License.

10.4 Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee. A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

The Qt Company shall have the right to suspend, terminate or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Developer License, Distribution License, and Support, should Licensee fail to make payment in a timely fashion.

10.5 Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax and other taxes, duties or tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where applicable, in lieu of payment of such Taxes, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1 Licensee's Record-keeping

Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e., undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

11.2 The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the use of the Redistributables, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment of more than 5% of License Fees shall always be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION

12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.
12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors’) and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

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NPM License Checker
===================

As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimeters instead of commas. Some license names contain commas and it messed with the parsing*

*Ever needed to see all the license info for a module and its dependencies?*

It's this easy:

```shell
npm install -g license-checker
```

mkdir foo
cd foo
npm install yui-lint
license-checker

You should see something like this:

```shell
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
```
An asterisk next to a license name means that it was deduced from an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
debug@2.0.0
  repository: https://github.com/visionmedia/debug
  licenses: MIT*
```

Options
-------
* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--customPath` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage',
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages` restrict output to not include any package marked as private
* `--direct look for direct dependencies only`
A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does support some license strings that are not SPDX identifiers.

Examples
-------

```shell
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

Custom format
--------------

The `--customPath` option can be used with CSV to specify the columns. Note that the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.
See an example in [customFormatExample.json](customFormatExample.json).

Requiring
---------
```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking'
}, function(err, packages) {
  if (err) {
    //Handle error
  } else {
    //The sorted package data
    //as an Object
  }
});
```

Debugging
---------

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. There are two internal markers:

* `license-checker:error` for errors
* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```shell
$ export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
  # ...
```

How Licenses are Found
----------------------

We walk through the `node_modules` directory with the [`read-installed`](https://www.npmjs.org/package/read-installed) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s. We try to identify the license with the [spdx](https://www.npmjs.com/package/spdx) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `Licence`, `COPYING`, & `README`.

If one of those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `*` next to the name of the license to show that we "guessed" at it.
The Mesa header files use the following licenses.

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

The default Mesa license is as follows:

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 *
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/*
PortAudio I/O Library

Ring Buffer utility.

Author: Phil Burk, http://www.softsynth.com
modified for SMP safety on Mac OS X by Bjorn Roche
modified for SMP safety on Linux by Leland Lucius
also, allowed for const where possible
modified for multiple-byte-sized data elements by Sven Fischer

Note that this is safe only for a single-thread reader and a
single-thread writer.

This program uses the PortAudio Portable Audio Library.
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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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Mesa 3-D graphics library
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`cssmin.py` - A Python port of the YUI CSS compressor.

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# License

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or later (LGPL v2.1+). Read the file `COPYING.LGPLv2.1` for details. Some other files have MIT/X11/BSD-style licenses. In combination the LGPL v2.1+ applies to FFmpeg.

Some optional parts of FFmpeg are licensed under the GNU General Public License version 2 or later (GPL v2+). See the file `COPYING.GPLv2` for details. None of these parts are used by default, you have to explicitly pass `--enable-gpl` to configure to activate them. In this case, FFmpeg's license changes to GPL v2+

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/fflav_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libsresample/tests/swresample.c`
  - `tests/checkasm/**`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fsp.c`
  - `vf_filter.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_kerndeint.c`
  - `vf_lensfun.c` (GPL version 3 or later)
  - `vf_mcadeint.c`
  - `vf_mpdecimate.c`
  - `vf_mnledi.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_repeatfields.c`
Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries

The following libraries are under GPL version 2:
- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by
passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:
- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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Version 3, 29 June 2007

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/*
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*/

var checker = require('../lib/index');

var args = require('../lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
  console.error('license-checker@' + require('../package.json').version);
  var usage = [
    '',
    '  --production only show production dependencies.',
    '  --development only show development dependencies.',
    '  --unknown report guessed licenses as unknown licenses.',
    '  --start [path of the initial json to look for]',
    '  --onlyunknown only list packages with unknown or guessed licenses.',
    '  --json output in json format.',
    '  --csv output in csv format.',
    '  --csvComponentPrefix column prefix for components in csv file',
    '  --out [filepath] write the data to a specific file.',
    '  --customPath to add a custom Format file in JSON',
    '  --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
    '  --relativeLicensePath output the location of the license files as relative paths',
    '  --summary output a summary of the license usage',
    '  --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
    '  --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated list',
    '  --direct look for direct dependencies only',
    '  --packages [list] restrict output to the packages (package@version) in the semicolon-separated list',
    '  --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated list',
    '  --excludePrivatePackages restrict output to not include any package marked as private',
    '',
    '  --version The current version',
    '  --help The text you are reading right now :) ',
    ''];
  console.error(usage.join('
'), '
');
  process.exit(0);
}

if (args.version) {
  console.error(require('../package.json').version);
  process.exit(1);
}

if (args.failOn & args.onlyAllow) {
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
  process.exit(1);
} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
    var argName = args.failOn ? 'failOn' : 'onlyAllow';
  }
}
console.warn('Warning: As of v17 the --argName + argument takes semicolons as delimiters instead of commas (some license names can contain commas')};
}  
}

checker.init(args, function(err, json) {

var formattedOutput = "",

if (!err) {
    console.error('Found error');
    console.error(err);
}

if (shouldColorizeOutput(args)) {
    var keys = Object.keys(json);
    keys.forEach(function(key) {
        var keyParts = key.split('@');
        var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
        json[colorizedKey] = json[key];
        delete json[key];
    });
}

if (args.json) {
    formattedOutput = JSON.stringify(json, null, 2) + 'n';
} else if (args.csv) {
    formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
} else if (args.markdown) {
    formattedOutput = checker.asMarkDown(json, args.customFormat) + 'n';
} else if (args.summary) {
    formattedOutput = checker.asSummary(json);
} else {
    formattedOutput = checker.asTree(json);
}

if (args.files) {
    checker.asFiles(json, args.files);
} else if (args.out) {
    var dir = path.dirname(args.out);
    mkdirp.sync(dir);
    fs.writeFileSync(args.out, formattedOutput, 'utf8');
} else {
    console.log(formattedOutput);
}

}));

function shouldColorizeOutput(args) {


return args.color && !args.out && !(args.csv || args.json || args.markdown);
}

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of their services for Licensee. Licensee shall be responsible for
any and all actions and omissions of its Affiliates and Contractors
relating to the Licensed Software and use thereof (including but not
limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3,
Licensee shall not transfer, publish, disclose, display or otherwise
make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or
attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any
mandatory provisions of any applicable laws.
Any use of Licensed Software beyond the provisions of this Agreement is
strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code
(collectively "Third-Party Software") to implement various functions.
Third-Party Software does not comprise part of the Licensed Software. In some
cases, access to Third-Party Software may be included with the Licensed
Software. Such Third-Party Software will be listed in the ".../src/3rdparty"
source tree delivered with the Licensed Software or documented in the Licensed
Software, as such may be amended from time to time. Licensee acknowledges that
use or distribution of Third-Party Software is in all respects subject to
applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample
code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY
7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY’S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party’s business, business methods, business plans, customers, business relations, technology, and other
information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any
11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this
section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to theLicensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above
or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:
(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.
In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any
Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements.
as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee’s License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt
for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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| Qt Sensors    | X, R | X, R |       |       |      | +--------------------------+
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| Qt Serial Port | X, R | X, R |       |       |      | +--------------------------+
| Qt Speech     | X, R | X, R |       |       |      | +--------------------------+
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# This file contains a list of people who’ve made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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## Change Log

### v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169)
  Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c)
  changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06)
  contrib (@davglass)
### v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05f5e143083df6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fixed-exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fix-type (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

### v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eab478d1354429ca4318c1df3de3e4eb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419ce093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdeb6f5be8) changes 24.0.1 (@davglass)

### v24.0.1 (2018/10/11 16:40 +00:00)
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae88cb80d8582e612c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629a9d5f00c224a9f61026b8116d) [Fixes #181] Removed extra line break with --cvs (@davglass)
- [d6bbaa28](https://github.com/davglass/license-checker/commit/6d5baa28f532f87ebeb75a32578c7ac5837806d12f) contrib and changes (@davglass)

### v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28a971c3fbf20b9e9de27ca9fe68481b) 24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix-strict-checks (@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079a8b9cbe5ce9e5cb09f307) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cf962d69d1521dc9ac2) changelog (@davglass)
### v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbc6da33838a226ddf8ec412535390d4) 23.0.0 (@davglass)
- [178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [2c661](https://github.com/davglass/license-checker/commit/2c661d6c6e50h2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

### v22.0.0 (2018/10/08 19:00 +00:00)
- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699e9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

### v21.0.0 (2018/10/06 13:24 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d4f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e88b7c9d6398) [Fixes #174] - Moved private and unknown detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ff8) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6e61a7b](https://github.com/davglass/license-checker/commit/6e61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

### v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f) 20.2.0 (@davglass)
- [169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aaba3e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d682960273e132333d3ad2d97b92ee2044ce6) test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0df48d7bea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f638f7](https://github.com/davglass/license-checker/commit/5f638f76aa17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)
### v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [9165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fixed-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

### v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5e9](https://github.com/davglass/license-checker/commit/c36a5e99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3ae4b1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb5bce8e8bc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

### v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbce681736f159d63908cd39ce9) upgrading packages (@davglass)
- [442ae6c](https://github.com/davglass/license-checker/commit/442ae69b544e47bf2d4e414e1f86d387e49c6) Changlog (@davglass)

### v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb026bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcb68d21e7bc53e44d55b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a4189ba8716c3a2) Copyright statement: Handle multi-line staments (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9c04f28](https://github.com/davglass/license-checker/commit/9c04f289ce2c1142c0df1f56f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaaee](https://github.com/davglass/license-checker/commit/f83aaaee85ad4c2e9880802951dfacbe86dc2d7f)
Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b66b6) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8ada0d227931b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe177fc](https://github.com/davglass/license-checker/commit/fe177fc76dbdae0cbf689a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9fd0d1ef37bb84ffbac65e007b) remove the old status badge (@honzajavorek)

### v18.0.0 (2018/03/20 12:30 +00:00)
- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917e59446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0f1](https://github.com/davglass/license-checker/commit/f0da0fe2a2b28f1658e4ed504bb034bf1536b9f8) add warning about commas and test it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccff4f181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cece3b7](https://github.com/davglass/license-checker/commit/cece3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8ce3a3c](https://github.com/davglass/license-checker/commit/8ce3addcf1d185dc3ae3f37ff4a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d5135bf80c0e0060ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

### v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fd8](https://github.com/davglass/license-checker/commit/cd5fd8e94267d7d8f29e86dd9c88b694c037f1)
Open Source Used In Crosswork Optimization Engine 4.0.0  7692
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)
- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121) (@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peterutihoven)
- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50bece91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

### v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [faddc8](https://github.com/davglass/license-checker/commit/faddc895df9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268ae9d7735b364bd87d03140d76482) changes (@davglass)

### v13.0.2 (2017/07/18 16:24 +00:00)
- [2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97d450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

### v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44) 13.0.1 (contrib & changes) (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e124937a5e22fe26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

### v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4) 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dacf809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

### v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944ec5](https://github.com/davglass/license-checker/commit/dc944ec5d5d77b0ef6b6321d9abe847662cb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eeafa592d9f9a0a31b244c1bd3) updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107) Merge pull request #107 from dancrumb/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87) FEATURE: Add support for Public Domain licenses (@dancrumb)

### v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edbd217aa3ce86f4662eb024621) 12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341ff47af70ed400) changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/license-file-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6728c817b89936f95097d26857b) changes & contrib (@davglass)

### v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5b9e4) Check for SPDX-compatible licenses (@xswordsx)

### v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a991033254945ecbbf69362cbb171436688e) contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab5082f0be032958f8233dd3000ee98e85) changelog (@davglass)

### v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283c5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500) moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b5355d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

### v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b5355d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

### v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fixed-ignore-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77070303627ab03ac12358dd524ce0be47eee) contrib & changelog (@davglass)

### v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612f2ed9eb03db0ad41e7918fbaf6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [dad473c](https://github.com/davglass/license-checker/commit/dad473c40b2f22f0dbce54364ee5b7b777f714a) test: fix test, move check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a) feat: add licenseText only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332f6d90e5039cabc50f0df1bf3) updated contribs and changelog (@davglass)

### v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd) 9.0.0 (@davglass)
Open Source Used In Crosswork Optimization Engine 4.0.0  7696

- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809) added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1ca118](https://github.com/davglass/license-checker/commit/1ca118e1aa18cc391ba2765dcaee89172943a0f) fix: replace problematics chars for easy import to Excel (@abtris)
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d00149f158d0b0f5e3e63) feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0cd5972309fb2) changes and contrib (@davglass)

### v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6fe63736ea02295) 8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43ed246302b8ff6933f8fe5f96ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d3e6f3e63215d6530d7f4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfe53f1e010566ee9f5c542cb8d63e) changes (@davglass)

### v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85) 8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

### v8.0.2 (2016/11/09 21:57 +00:00)
- [0bddd8](https://github.com/davglass/license-checker/commit/0bddd8cb990e1f5ffacde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ceb655c5ce8aa76fb5367857c891d013) Changelog (@davglass)

### v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
v8.0.0 (2016/09/09 13:23 +00:00)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

### v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fd89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5eca](https://github.com/davglass/license-checker/commit/b5f5eca6e03a8c60c52fd308f1721744a4baa99) [fixes #78] - include notice file if found (@davglass)
- [dfcb66f](https://github.com/davglass/license-checker/commit/dfcb66f4966ade74e065f7e45cd08b3e862ab) changelog (@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384e10341d0305d0de9cea5) 7.1.1 ( @davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

### v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

### v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367de86342ee5f5cc97171bf97281aa) 7.1.0 ( @davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8ca8a85870db3fa6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db1121794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

### v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b993399472162cc94292cb42f200e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3afa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [775](https://github.com/davglass/license-checker/pull/775) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329f42fc1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2794034fbb97b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8c8c39b596881a2eca582ad4bb816879) Added contributors (@davglass)

### v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741)
6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171ae01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4abf44db032d5f10f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa5454d4f1e8af216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30661](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c79222bc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fccc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [753998](https://github.com/davglass/license-checker/commit/753998a06cbb5fd9ff6430b3588a3b3c8f1339) Merge branch 'master' of git://github.com/amittkSharma/license-checker into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e446254372468508e1623d2b57cab1e30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a9714d883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d16ab1609dbf1412423f8a15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c3729a18f9c0137608b3d5e4fa) use nodeback/errback (@bengl)

### v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c7767ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67) Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fccc220dcefe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

### v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdb664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

### v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b634a46729b9a774193c6aef5cb3f) 5.1.0 (@davglass)
- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgtdck/master (@sgtdck)
- [6547a1](https://github.com/davglass/license-checker/commit/6547a1ced58560c7c4a9dfe68fa69d17b811fe1e) Removed obsolete $key$.name assignment from tests (@sgtdck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387ea4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

### v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fc4a82936a7a18ffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eaf](https://github.com/davglass/license-checker/commit/fe06eaf8844d050ad0f80d576a221dd605131de) Fixed replace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8ea008e7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

### v5.0.0 (2016/01/22 15:31 +00:00)
- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfe9a1a6ec6) supporting --production and --development flags (@davglass)
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/issue-46-verbose-output (@swashcap)
- [#54](https://github.com/davglass/license-checker/pull/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dce59340698630144256096a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809ca85f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7a1951a9d1b1f290fae15963fbb2ab4) Add debug to project. (@swashcap)

### v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96cf9f63b3bbf0110b116844aed0e7) 4.2.0 (@davglass)
- [981eea](https://github.com/davglass/license-checker/commit/981eea9898084dea88d54ea29c5bda93c5313f6b) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

### v4.1.2 (2015/09/29 13:46 +00:00)
- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

### v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857d1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842eca4e4f008c07df3039dcac4641d7273625) add missing `)` (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

### v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a093440021812b8dee2f39b8e07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8eb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbf5d0e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02fe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaeef297d0c23a6bb36b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1faa9c1be0c816545165020522ddbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578c84c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9eaaab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83ca10](https://github.com/davglass/license-checker/commit/83ca10493a5a05fbb6e0e80b5c03f9c4df656d) Change license shortcut for WTFPL (@ptusch)
- [3e348d8](https://github.com/davglass/license-checker/commit/3e348d8e5f2ebe7bd356ebe3fc3d4e9329d6c8c1) More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2b3f6bd8b83a613fe8d9ecc) Add tests for customFormatter (@ptusch)
- [e9948c4](https://github.com/davglass/license-checker/commit/e9948c4b7b2ccedd053ba63f4fd2a6a6d0a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0e124f6aba63ab21262652825c3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e33ae2b782f937dc54ef) Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73c7d7cf62af533) Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5c8c345736ebe6e97f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea456417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bb457fe8dc44) Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374) Add tests for customFormat (@ptusch)

### v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9b3eb17e) 4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af755c16231ce675c567a2ffe7f) tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048c9218c372abf68) Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94ec2903a5bc127ad2692) Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463ca71b22b09e0ecff16bbf982db82) Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13e9f67a) Add test for the first function call. (@ptusch)
- [faf8ff8](https://github.com/davglass/license-checker/commit/faf8ffdf69fd8ae475484a9b47b57a7b6ea738856) Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990ed52adfc0e2) Merge branch 'master' into ft_custom_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d91c9c40dc6980fbf13461408da822b1f) Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592b85805d7ecc0304a39c5cf079efe6a7c) Add option to only show unknown licenses (@ptusch)
- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225f2da97e0df3e3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28be71914cd10672855b3297) Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fd06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badd65368de6140476ffe5ae3768fb9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32a660bb409c08be138bc707) Finalize the custom Format (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aaed3624ab81148) Add functionality to add a custom format (@ptusch)

### v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0be1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2ebf9a69d13de2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7019](https://github.com/davglass/license-checker/commit/83a70193d1cc1f331279e53f2ec13e4efece91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714713559e05267e8fd24e74e5b9d3aee0) fixing tests (@davglass)
- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d26e533b22c761b169) Remove color tags (@ptusch)

### v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0f65317a17b3afef6e8c118fafe6bb43a56) spdx license (@davglass)

### v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e09d5a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c083ee291c55e53ef6b37a7b9d89f91bc7) defensive code, fixes #34 (@davglass)

### v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570fa87ecce9b37ffbb25afaee7faee6636) 3.0.1 (@davglass)
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952fa20eabf8d374f6c69a7e) Checking for valid path first (@davglass)

### v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32ef7fb18627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badff3e0d33a038f17b5) always try to find and log the license file (@davglass)
added options.filter to checker.init (@davglass)

### v0.1.2 (2014/11/20 15:48 +00:00)
- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f08057b2008ab29d8bd49011291) fixed lint issue (@davglass)

### v0.1.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5caeb3e6aa196cf8) fixed merge issues (@davglass)

### v0.1.0 (2014/11/20 15:41 +00:00)
- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eecebeb7df8d6cd5f694080e4183dcb11) 0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46bac8e349fe5892dcb659e859b9608) Updated to newer read-installed (@davglass)

### v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adff7d25a9f11331ff2b) 0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6b6545772ca41e27aba8f40fd5bbbc) Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952f9a9) colorize (@couchand)

### v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec) 0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b172a2f9f8dbdc56f402062080bc0916b) Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65bf750) case insensitive check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aaee2507eaf1d0d0592f6d8b59a16e7c48) Allow for LICENCE (@gdw2)

### v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33) 0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f5791fb0d1cfeb194d034c012073f) added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276d6c66d6535f9c5b7e9a978e286f2d174) Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98e5b) Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fd38b56f846f5) Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b) Added csv output option similar to the existing JSON output option. Requires an output filename.

### v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d421472b2d2037870818e8059003b331816cf) 0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb) Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d480ebe28ff523852e8eb2) Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eeef6ae840d) travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740dcd83f6246e0e7341832c6432db) 0.0.6 (@davglass)
- [6f390ff](https://github.com/davglass/license-checker/commit/6f390ff60b31a07939e6d325796bdcbef85907) Added some better tests (@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452doe41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a87b6ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da82c63e0d56c4567f1cfa07142d3110eca) Fixed extra var (@davglass)
- [fe82f7](https://github.com/davglass/license-checker/commit/fe82f7d393d520c0c4d877d34c9d4f55d594222d) Removing unecessary log statement (@paulmand3l)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403d43c5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand3l)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81e0e0](https://github.com/davglass/license-checker/commit/a81e0e0a27f580688e371cc15015e848f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883e050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c8716793d4b1e9bac8c055663e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8bb88e8878a95ab8153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df63ac0f9ae4e8c935311fbb1b3f88a688e) Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1bae6e1975f8c36eb59952254cd66c31017) Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c5a1bd453368299a14cc5ff1c6f8b) Version Bump (@davglass)
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254ce96d72f3d8dc793d5d24d3e2bde37) fixed special case when an empty array is passed to license/licenses (@badunk)
Open Source Used In Crosswork Optimization Engine 4.0.0  7706

[025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef) - fixed bug with multiple licenses objects not showing (@badunk)
[6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a) - cleaned up the code (@badunk)
[efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19) - added check for circular dependencies (@badunk)
[825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac) - Version Bump (@davglass)
[91](https://github.com/davglass/license-checker/pull/1) - Merge pull request #1 from mwil businessmen/master (@mwil businessmen)
[2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762) - Don't ignore license field if it's a string (@mwil businessmen)
[7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbae5447492c53) - Initial Commit (@davglass)

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### v4.0.1 (2016-12-14)

##### WHOOPS

* ['fb9b1ce'](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)
Merged so many patches at once that the code fencing
([@adius](https://github.com/adius)) added got broken. Sorry.
([@adius](https://github.com/adius))!
([@othiym23](https://github.com/othiym23))

### v4.0.0 (2016-12-13)

#### BREAKING CHANGES

* [651d447](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa)
  When parsing String-typed arguments, if the next value is `''`, don't simply
  swallow it. ([@samjonester](https://github.com/samjonester))

#### PERFORMANCE TWEAKS

* [3370ce8](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbcdff252a9)
  Simplify initialization. ([@elidoran](https://github.com/elidoran))
* [356e58e](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09)
  Store `Array.isArray(types[arg])` for reuse. ([@elidoran](https://github.com/elidoran))
* [0d95e90](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e)
  Interpret single-item type arrays as a single type. ([@samjonester](https://github.com/samjonester))
* [07e69d3](https://github.com/npm/nopt/commit/07e69d38b5186450941fbb505550bcb78a0e925)
  Simplify key-value extraction. ([@elidoran](https://github.com/elidoran))
* [39b6e5c](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1beece5cd4c834c254)
  Only call `Date.parse(val)` once. ([@elidoran](https://github.com/elidoran))
* [934943d](https://github.com/npm/nopt/commit/934943dfeeb55123a2b15959fe2a359319a5dbd)
  Use `osenv.home()` to find a user's home directory instead of assuming it's
  always `~HOME`. ([@othiym23](https://github.com/othiym23))

#### TEST & CI IMPROVEMENTS

* [326ffff](https://github.com/npm/nopt/commit/326ffff7f78a00bcd316adecf69075f8a8093619)
  Fix `/tmp` test to work on Windows. ([@elidoran](https://github.com/elidoran))
* [c89d31a](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)
  Only run Windows tests on Windows, only run Unix tests on a Unix. ([@elidoran](https://github.com/elidoran))
* [affd3d1](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b1844733966)
  Refresh Travis to run the tests against the currently-supported batch of npm
  versions. ([@helio](https://github.com/helio)-frota)
* [55f9449](https://github.com/npm/nopt/commit/55f94497d163ed4d16dd55fd6c4f95cc440e66d)
  `tap@8.0.1` ([@othiym23](https://github.com/othiym23))

#### DOC TWEAKS

* [5271229](https://github.com/npm/nopt/commit/5271229ee7c810217d51616c086f5d9ab224581)
Use JavaScript code block for syntax highlighting.

(`[`c0d156f`](https://github.com/npm/nopt/commit/c0d156f229f9994c5dfcec4a8886eceff7a07682)

The code sample in the README had `many2: [ oneThing ]`, and now it has
`many2: [ two, things ]`. ([@silkentrance](https://github.com/silkentrance))

version 1.2.11, January 15th, 2017

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

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10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.
Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.
Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company’s written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates’ and Contractors’) to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated
12.5. Extension in case of bankruptcy

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration.
from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company’s behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company’s applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee’s Purchase Order (“Deviating Terms”) shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.”
14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to
the other for any delay or non-performance of its obligations hereunder in the
event and to the extent that such delay or non-performance is due to an event
of act of God, terrorist attack or other similar unforeseeable catastrophic
event that prevents either Party for fulfilling its obligations under this
Agreement and which such Party cannot avoid or circumvent ("Force Majeure
Event"). If the Force Majeure Event results in a delay or non-performance of a
Party for a period of three (3) months or longer, then either Party shall have
the right to terminate this Agreement with immediate effect without any
liability (except for the obligations of payment arising prior to the event of
Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and
deemed received if specifically acknowledged by the receiving Party in writing
or when successfully delivered to the recipient by hand, fax, or special
courier during normal business hours on a business day to the addresses
specified for each Party on the signature page. Each communication and document
made or delivered by one Party to the other Party pursuant to this Agreement
shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in
Applications or Devices, may be subject to export control restrictions under
the applicable laws of respective countries. Licensee shall fully comply with
all applicable export license restrictions and requirements as well as with all
laws and regulations relating to the Redistributables and exercise of licenses
hereunder and shall procure all necessary governmental authorizations,
including without limitation, all necessary licenses, approvals, permissions or
consents, where necessary for the re-exportation of the Redistributables,
Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this
Agreement, and all rights, save for those expressly granted hereunder, shall
remain with The Qt Company and its licensors. In addition, no licenses or
immunities are granted to the combination of the Licensed Software with any
other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled
to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt
Company may collect, use, transfer and disclose personal data pertaining to
Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICIES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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APPENDIX 4: SMALL BUSINESS AND STARTUP
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# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
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# here. Please keep the list sorted by first names.

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^ expected errors | v input

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/*---
 esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/

void 0;
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2006-Jan-27

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## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm):

```javascript
npm install spdx-license-ids
```

## Node.js API

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

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]\n
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

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

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
```
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ongoing project coordination/maintenance;
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Re-implemented and improved read-write locks;
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enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaff tpfaff@gmx.net
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bezz franco.bez@gmx.de
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reduced namespace pollution;
idea to separate routines to reduce statically linked image sizes.
Rob Fanner rfan@stonethree.com
Bug fix.
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
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In 1995, Guido continued his work on Python at the Corporation for
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C++ port by Konstantin Kfer <mail@kkaefer.com>, 2014.

https://github.com/deanm/css-color-parser-js
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node-http-proxy

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@gmail.com>
* gzip/zlib I/O support.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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* Cheers,
* Wilco
*
* ----- Original Message ----- 
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
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If you want to write an option parser, and have it be good, there are two ways to do it. The Right Way, and the Wrong Way.

The Wrong Way is to sit down and write an option parser. We've all done that.

The Right Way is to write some complex configurable program with so many options that you hit the limit of your frustration just trying to manage them all, and defer it with duct-tape solutions until you see exactly to the core of the problem, and finally snap and write an awesome option parser.

If you want to write an option parser, don't write an option parser. Write a package manager, or a source control system, or a service rearter, or an operating system. You probably won't end up with a good one of those, but if you don't give up, and you are relentless and diligent enough in your procrastination, you may just end up with a very nice option parser.
---javascript

```
// my-program.js

var nopt = require("nopt")
, Stream = require("stream").Stream
, path = require("path")
, knownOpts = { "foo" : [String, null]
, "bar" : [Stream, Number]
, "baz" : path
, "bloo" : [ "big", "medium", "small" ]
, "flag" : Boolean
, "pick" : Boolean
, "many1" : [String, Array]
, "many2" : [path, Array]
}

, shortHands = { "foofoo" : ["--foo", "Mr. Foo"]
, "b7" : ["--bar", "7"]
, "m" : ["--bloo", "medium"]
, "p" : ["--pick"]
, "f" : ["--flag"]
}

// everything is optional.
// knownOpts and shorthands default to {}
// arg list defaults to process.argv
// slice defaults to 2

, parsed = nopt(knownOpts, shortHands, process.argv, 2)

console.log(parsed)
```

This would give you support for any of the following:

```
$ node my-program.js --foo "blerp" --no-flag
{ "foo" : "blerp", "flag" : false }

$ node my-program.js ---bar 7 --foo "Mr. Hand" --flag
{ bar: 7, foo: "Mr. Hand", flag: true }

$ node my-program.js --foo "blerp" -f -----p
{ foo: "blerp", flag: true, pick: true }

$ node my-program.js -fp --foofoo
{ foo: "Mr. Foo", flag: true, pick: true }

$ node my-program.js --foofoo -- -fp # -- stops the flag parsing.
{ foo: "Mr. Foo", argv: [ remain: ["-fp"] ] }
```
$ node my-program.js --blatzk -fp # unknown opts are ok
{ blatzk: true, flag: true, pick: true }

$ node my-program.js --blatzk=1000 -fp # but you need to use = if they have a value
{ blatzk: 1000, flag: true, pick: true }

$ node my-program.js --no-blatzk -fp # unless they start with "no-
{ blatzk: false, flag: true, pick: true }

$ node my-program.js --baz b/a/z # known paths are resolved.
{ baz: "/Users/isaacs/b/a/z" }

# if Array is one of the types, then it can take many
# values, and will always be an array. The other types provided
# specify what types are allowed in the list.

$ node my-program.js --many1 5 --many1 null --many1 foo
{ many1: ["5", "null", "foo"] }

$ node my-program.js --many2 foo --many2 bar
{ many2: ["/path/to/foo", "/path/to/bar"] }

Read the tests at the bottom of `lib/nopt.js` for more examples of
what this puppy can do.

## Types

The following types are supported, and defined on `nopt.typeDefs`

* String: A normal string. No parsing is done.
* path: A file system path. Gets resolved against cwd if not absolute.
* url: A url. If it doesn't parse, it isn't accepted.
* Number: Must be numeric.
* Date: Must parse as a date. If it does, and `Date` is one of the options,
then it will return a Date object, not a string.
* Boolean: Must be either `true` or `false`. If an option is a boolean,
then it does not need a value, and its presence will imply `true` as
the value. To negate boolean flags, do `--no-whatever` or `--whatever
false`
* NaN: Means that the option is strictly not allowed. Any value will
fail.
* Stream: An object matching the "Stream" class in node. Valuable
for use when validating programmatically. (npm uses this to let you
supply any WriteStream on the `outfd` and `logfd` config options.)
* Array: If `Array` is specified as one of the types, then the value
will be parsed as a list of options. This means that multiple values
can be specified, and that the value will always be an array.
If a type is an array of values not on this list, then those are considered valid values. For instance, in the example above, the `--bloo` option can only be one of "big", "medium", or "small", and any other value will be rejected.

When parsing unknown fields, "true", "false", and "null" will be interpreted as their JavaScript equivalents.

You can also mix types and values, or multiple types, in a list. For instance `{ blah: [Number, null] }` would allow a value to be set to either a Number or null. When types are ordered, this implies a preference, and the first type that can be used to properly interpret the value will be used.

To define a new type, add it to `nopt.typeDefs`. Each item in that hash is an object with a `type` member and a `validate` method. The `type` member is an object that matches what goes in the type list. The `validate` method is a function that gets called with `validate(data, key, val)`. Validate methods should assign `data[key]` to the valid value of `val` if it can be handled properly, or return boolean `false` if it cannot.

You can also call `nopt.clean(data, types, typeDefs)` to clean up a config object and remove its invalid properties.

## Error Handling

By default, nopt outputs a warning to standard error when invalid values for known options are found. You can change this behavior by assigning a method to `nopt.invalidHandler`. This method will be called with the offending `nopt.invalidHandler(key, val, types)`.

If no `nopt.invalidHandler` is assigned, then it will console.error its whining. If it is assigned to boolean `false` then the warning is suppressed.

## Abbreviations

Yes, they are supported. If you define options like this:

```javascript
{ "foolhardyelephants" : Boolean
 , "pileofmonkeys" : Boolean }
```

Then this will work:
```bash
node program.js --foolhar --pil
node program.js --no-f --pileofmon
# etc.
```

## Shorthands

Shorthands are a hash of shorter option names to a snippet of args that they expand to.

If multiple one-character shorthands are all combined, and the combination does not unambiguously match any other option or shorthand, then they will be broken up into their constituent parts. For example:

```json
{ "s" : ["--loglevel", "silent"],
  "g" : "--global",
  "f" : "--force",
  "p" : "--parseable",
  "l" : "--long"
}
```

```bash
npm ls -sgflp
# just like doing this:
npm ls --loglevel silent --global --force --long --parseable
```

## The Rest of the args

The config object returned by nopt is given a special member called `argv`, which is an object with the following fields:

* `remain`: The remaining args after all the parsing has occurred.
* `original`: The args as they originally appeared.
* `cooked`: The args after flags and shorthands are expanded.

## Slicing

Node programs are called with more or less the exact argv as it appears in C land, after the v8 and node-specific options have been plucked off. As such, `argv[0]` is always `node` and `argv[1]` is always the JavaScript program being run.

That's usually not very useful to you. So they're sliced off by default. If you want them, then you can pass in `0` as the last
argument, or any other number that you’d like to slice off the start of
the list.

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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and
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- map image extracted from Topographic map raster 1:50 000 (U442) 08/2014

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'

```bash
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

## End BSD-specific setup

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```

```
#!/usr/bin/env node
var nopt = require("../lib/nopt")
, path = require("path")
, types = { num: Number
, bool: Boolean
, list: Array
, "num-list": [Number, Array]
, "str-list": [String, Array]
, "bool-list": [Boolean, Array]
, str: String
, clear: Boolean
, config: Boolean
, length: Number
, file: path
}
, shorthands = { s: [ "--str", "astring" ]
, b: [ "--bool" ]
, nb: [ "--no-bool" ]
, tft: [ "--bool-list", "--no-bool-list", "--bool-list", "true" ]
, "?": ["--help"]
, h: ["--help"]
, H: ["--help"]
, n: [ "--num", "125" ]
, c: ["--config"]
```
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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```cpp
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a);
```

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc', consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library
----------------------------------------

The library consists of a folder full of C++ header files (`.hh') and source files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do
this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources
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The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements
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The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine
Repository: https://github.com/acornjs/acorn.git

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Repository: rollup/rollup-pluginutils

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language: node_js
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- '4'
- '6'
- '7'
before_install:
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
```
validForNewPackages: true,
validForOldPackages: true,
spdx: true
];

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:
```
```javascript
assert.deepEqual(valid('Apache 2.0'),
{
validForOldPackages: false,
validForNewPackages: false,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
"'UNLICENSED", or ' +
""SEE LICENSE IN <filename>"'.
'license is similar to the valid expression "Apache-2.0"
]
}
}
```
SPDX expressions are valid, too ...
```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(valid('(GPL-3.0-only OR BSD-2-Clause)'),
validSPDXExpression
);
```
... except if they contain 'LicenseRef':
```
```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'license should be ' +
```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

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

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

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
```
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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Attributions:
The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
September 24-28, 2005, Long Beach, California, USA
http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf

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History and License

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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://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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+----------------+--------------+------------+------------+-----------------+
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|----------------+--------------+------------+------------+-----------------+
| 0.9.0 thru 1.2 | n/a          | 1991-1995  | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999  | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000       | CNRI       | no              |
| 2.0            | 1.6          | 2000       | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001       | CNRI       | no              |
| 2.1            | 2.0+1.6.1    | 2001       | PSF        | no              |

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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Sockets
-------


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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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---------------------------

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
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  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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-------

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<td>CNRI</td>
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Manifest-Version: 1.0
Build-Revision: 1644098945956
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: Collectors of data from Java Hotspot.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Hotspot
Bundle-SymbolicName: io.prometheus.simpleclient_hotspot
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client
*:version="0.15.0"
Import-Package: com.sun.management.io.prometheus.client;version="[0.15,1)",javax.management,javax.management.openmbean
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1.1084 pyasn1 0.4.8
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
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ASN.1 library for Python
-----------------------

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)
Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
    )
)
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

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

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

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
```
>>> record == received_record
True

>>> received_record.update(room=123)

>>> substrate = encode(received_record)

>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

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

>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.

More information on `pyasn1` APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the `pyasn1-modules` [repo](https://github.com/etingof/pyasn1-modules).

How to get `pyasn1`

-------------
The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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ASN.1 library for Python

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

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

What is ASN.1
=*

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

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

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

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

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

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

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
------------------

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

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

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

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

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case
Download & Install

Changes

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

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The PyASN1 software is distributed under 2-clause BSD License.

Getting help


Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:
* ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html> by Olivier Dubuisson

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


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


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

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

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1.1093 jetty-util 9.4.48.v20220622

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

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

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

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Oracle

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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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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
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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([archive](http://web.archive.org/web/20181005185227/https://github.com/rust-lang-nursery/rust-clippy/issues/3093),
[screenshot](https://user-images.githubusercontent.com/1617736/46573505-5b85680-c94b-11e8-9a14-981c889b4981.png)) we relicensed it to the Rust license (dual licensed as Apache v2 / MIT)

At the time, the contributors were those listed in contributors.txt.

We opened a bunch of issues asking for an explicit relicensing approval. Screenshots of all these issues at the time of relicensing are archived on GitHub. We also have saved Wayback Machine copies of these:

- #3094
  ([archive](http://web.archive.org/web/2018100519124/https://github.com/rust-lang-nursery/rust-clippy/issues/3094),
  [screenshot](https://user-images.githubusercontent.com/1617736/46573506-5b85680-c94b-11e8-8a44-51cb40b16ee.png))
- #3095
  ([archive](http://web.archive.org/web/20181005184416/https://github.com/rust-lang-nursery/rust-clippy/issues/3095),
  [screenshot](https://user-images.githubusercontent.com/1617736/46573507-5c1dff00-c94b-11e8-912a-4bd6b5838f5.png))
- #3096
  [screenshot](https://user-images.githubusercontent.com/1617736/46573508-5c1dff00-c94b-11e8-9425-2464f7260ff0.png))
- #3097
  [screenshot](https://user-images.githubusercontent.com/1617736/46573509-5c1dff00-c94b-11e8-9426-f7260ff0.png))
- #3098
  [screenshot](https://user-images.githubusercontent.com/1617736/46573510-5c1dff00-c94b-11e8-8f64-371698401c60.png))
- #3099
  [screenshot](https://user-images.githubusercontent.com/1617736/46573511-5c1dff00-c94b-11e8-8e20-7d0e9392b95.png))
- #3100
  [screenshot](https://user-images.githubusercontent.com/1617736/46573512-5c1dff00-c94b-11e8-8a13-7d758ed3563d.png))
- #3230

([archive](http://web.archive.org/web/20181005184903/https://github.com/rust-lang-nursery/rust-clippy/issues/3230), [screenshot](https://user-images.githubusercontent.com/1617736/1617736/46573513-5cb69580-c94b-11e8-86b1-14ce82741e5c.png))

The usernames of commenters on these issues can be found in relicense_comments.txt

There are a couple people in relicense_comments.txt who are not found in contributors.txt:

- @EpocSquadron has [made minor text contributions to the README](https://github.com/rust-lang/rust-clippy/commits?author=EpocSquadron) which have since been overwritten, and doesn't count
- @JayKickliter [agreed to the relicense on their pull request](https://github.com/rust-lang/rust-clippy/pull/3195#issuecomment-423781016) ([archive](https://web.archive.org/web/20181005190730/https://github.com/rust-lang/rust-clippy/pull/3195), [screenshot](https://user-images.githubusercontent.com/1617736/46573514-5cb69580-c94b-11e8-8ffb-05a5bd02e2cc.png))
- @sanmai-NL’s [contribution](https://github.com/rust-lang/rust-clippy/commits?author=sanmai-NL) is a minor one-word addition which doesn’t count for copyright assignment
- @zmt00’s [contributions](https://github.com/rust-lang/rust-clippy/commits?author=zmt00) are minor typo fixes and don’t count
- @VKlayd has [nonminor contributions](https://github.com/rust-lang/rust-clippy/commits?author=VKlayd) which we rewrote (see below)
- @wartman4404 has [nonminor contributions](https://github.com/rust-lang/rust-clippy/commits?author=wartman4404) which we rewrote (see below)

Two of these contributors had nonminor contributions (#2184, #427) requiring a rewrite, carried out in #3251 ([archive](http://web.archive.org/web/20181005192411/https://github.com/rust-lang-nursery/rust-clippy/pull/3251), [screenshot](https://user-images.githubusercontent.com/1617736/1617736/46573515-5cb69580-c94b-11e8-86e5-b456452121b2.png))

First, I (Manishearth) removed the lints they had added. I then documented at a high level what the lints did in #3251, asking for co-maintainers who had not seen the code for the lints to rewrite them. #2814 was rewritten by @phansch, and #427 was rewritten by @oli-obk, who did not recall having previously seen the code they were rewriting.

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Since this document was written, @JayKickliter and @sanmai-ML added their consent in #3230
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use std::fmt;
use std::fs::File;
use std::io;
use std::io::Read;

use regex::Regex;

#[derive(Debug)]
pub(crate) enum LicenseError {
    IO(io::Error),
    Regex(regex::Error),
    Parse(String),
}

impl fmt::Display for LicenseError {
    fn fmt(&self, f: &mut fmt::Formatter<'_>) -> fmt::Result {


match *self {
    LicenseError::IO(ref err) => err.fmt(f),
    LicenseError::Regex(ref err) => err.fmt(f),
    LicenseError::Parse(ref err) => write!(f, "parsing failed, { }", err),
}
}

impl From<io::Error> for LicenseError {
    fn from(err: io::Error) -> LicenseError {
        LicenseError::IO(err)
    }
}

impl From<regex::Error> for LicenseError {
    fn from(err: regex::Error) -> LicenseError {
        LicenseError::Regex(err)
    }
}

// the template is parsed using a state machine
enum ParsingState {
    Lit,
    LitEsc,
    // the u32 keeps track of brace nesting
    Re(u32),
    ReEsc(u32),
    Abort(String),
}

use self::ParsingState::*;

pub(crate) struct TemplateParser {
    parsed: String,
    buffer: String,
    state: ParsingState,
    linum: u32,
    open_brace_line: u32,
}

impl TemplateParser {
    fn new() -> Self {
        Self {
            parsed: "^".to_string().to_owned(),
            buffer: String::new(),
            state: Lit,
            linum: 1,
            // keeps track of last line on which a regex placeholder was started
        }
    }
}
/// Converts a license template into a string which can be turned into a regex.
///
/// The license template could use regex syntax directly, but that would require a lot of manual
/// escaping, which is inconvenient. It is therefore literal by default, with optional regex
/// subparts delimited by `\{` and `\}`. Additionally:
///
/// - to insert literal `\`, `\}` or `\`, escape it with `\`
/// - an empty regex placeholder (`\{ \}`) is shorthand for `\.\.*?\`
///
/// This function parses this input format and builds a properly escaped *string* representation
/// of the equivalent regular expression. It **does not** however guarantee that the returned
/// string is a syntactically valid regular expression.
///
/// # Examples
///
/// ```text
/// assert_eq!(
///     TemplateParser::parse(
///         r""""// Copyright \d+ The \} Rust \ Project \{ Developers. See the \([A-Z]+)\)
/// // file at the top-level directory of this distribution and at
/// // "
/// // Licensed under the Apache License, Version 2.0 <LICENSE-APACHE or
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/// // <LICENSE-MIT or http://opensource.org/licenses/MIT>, at your
/// // option. This file may not be copied, modified, or distributed
/// // except according to those terms.
/// // "
/// ).unwrap(),
/// r"""
///
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/// // "
/// ///
/// pub(crate) fn parse(template: &str) -> Result<String, LicenseError> {
let mut parser = Self::new();
for chr in template.chars() {
    if chr == '\n' {
        parser.linum += 1;
    }
    parser.state = match parser.state {
        Lit => parser.trans_from_lit(chr),
        LitEsc => parser.trans_from_litesc(chr),
        Re(brace_nesting) => parser.trans_from_re(chr, brace_nesting),
        ReEsc(brace_nesting) => parser.trans_from_reesc(chr, brace_nesting),
        Abort(msg) => return Err(LicenseError::Parse(msg)),
    };
}
// check if we've ended parsing in a valid state
match parser.state {
    Abort(msg) => return Err(LicenseError::Parse(msg)),
    Re(_) | ReEsc(_) => {
        return Err(LicenseError::Parse(format!(
            "escape or balance opening brace on l. {}",
            parser.open_brace_line
        )));
    }
    LitEsc => {
        return Err(LicenseError::Parse(format!(
            "incomplete escape sequence on l. {}",
            parser.linum
        )));
    }
    _ => (),
}
parser.parsed.push_str(&regex::escape(&parser.buffer));
Ok(parser.parsed)
}

fn trans_from_lit(&mut self, chr: char) -> ParsingState {
    match chr {
        '{' => {
            self.parsed.push_str(&regex::escape(&self.buffer));
            self.buffer.clear();
            self.open_brace_line = self.linum;
            Re(1)
        }
        '}' => Abort(format!(
            "escape or balance closing brace on l. {}",
            self.linum
        )),
        '\' => LitEsc,
    }
}
fn trans_from_litesc(&mut self, chr: char) -> ParsingState {
    self.buffer.push(chr);
    Lit
}

fn trans_from_re(&mut self, chr: char, brace_nesting: u32) -> ParsingState {
    match chr {
    ']=' => {
        self.buffer.push(chr);
        Re(brace_nesting + 1)
    }
    ']' => {
        match brace_nesting {
        1 => {
            // default regex for empty placeholder {}
            if self.buffer.is_empty() {
                self.parsed.push_str(".*?");
            } else {
                self.parsed.push_str(&self.buffer);
            }
            self.buffer.clear();
            Lit
        } => {
            self.buffer.push(chr);
            Re(brace_nesting - 1)
        }
        }
    }
    '\\' => {
        self.buffer.push(chr);
        ReEsc(brace_nesting)
    }
    _ => {
        self.buffer.push(chr);
        Re(brace_nesting)
    }
    }
}

fn trans_from_reesc(&mut self, chr: char, brace_nesting: u32) -> ParsingState {


self.buffer.push(chr);
  Re(brace_nesting)
}

pub(crate) fn load_and_compile_template(path: &str) -> Result<Regex, LicenseError> {
  let mut lt_file = File::open(&path)?;
  let mut lt_str = String::new();
  lt_file.read_to_string(&mut lt_str)?;
  let lt_parsed = TemplateParser::parse(&lt_str)?;
  Ok(Regex::new(&lt_parsed)?)
}

#[cfg(test)]
mod test {
  use super::TemplateParser;

  #[test]
  fn test_parse_license_template() {
    assert_eq!(TemplateParser::parse("literal (.*)").unwrap(),
               r"^literal \(\.*\)"
    );
    assert_eq!(TemplateParser::parse("escaping \}\)").unwrap(),
               r"^escaping \}\"
    );
    assert!((TemplateParser::parse("unbalanced } without escape").is_err());
    assert_eq!(TemplateParser::parse(r"\{d+\} place{-?}holder{s?}\").unwrap(),
               r"^\d+ place-?holders?"
    );
    assert_eq!(TemplateParser::parse("default {}\")\unwrap(), "^default .*?\")
    );
    assert_eq!(TemplateParser::parse("unbalanced nested braces \{\{3\}\}\")\unwrap(),
               r"^unbalanced nested braces \{\{3\}\"
    );
    assert_eq!(&TemplateParser::parse("parsing error \}"\)\unwrap_err(),
               "parsing failed, escape or balance closing brace on l. 1"
    );
    assert_eq!(&TemplateParser::parse("parsing error \{\}\"
               .unwrap_err()
               .to_string(),
               "parsing failed, escape or balance opening brace on l. 1"
    );
assert_eq!(
    &TemplateParser::parse(r"parsing error ")
    .unwrap_err()
    .to_string(),
    "parsing failed, incomplete escape sequence on l. 1"
);

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* libbacktrace, under src/libbacktrace:

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Version 3.1, 31 March 2009

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Python License
==============

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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Mersenne Twister

The `_random' module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
-------

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- Use binascii module to do the actual line-by-line conversion
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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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Bundle-Name: org.objectweb.asm
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Export-Package: org.objectweb.asm;version="7.3.1",org.objectweb.asm.signature;version="7.3.1"
Implementation-Title: ASM, a very small and fast Java bytecode manipulation framework
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* /opt/cola/permits/1154768440_161888544.68/0/lz4tools-1-3-1-2-tar-gz/lz4tools-1.3.1.2/src/lz4frame_static.h
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Metadata-Version: 1.1
Name: lz4tools
Version: 1.3.1.2
Summary: LZ4Frame Bindings and tools for Python
Overview
--------
This package consists of three parts:

1. lz4f - C-Module containing python bindings for all lz4frame functions.
2. lz4tools - a zipfile-like file wrapper class and tarfile-like class for lz4 compressed files.
3. lz4toolsCli - a quick cli for using lz4tools static functions.

Before going any further, I recommend reading up on lz4 at: https://code.google.com/p/lz4/

It is an awesome compression algorithm and I can't thank Yann Collet enough for putting together the C implementation and lz4frame.

Usage
-----
Cli:
    New addition, there is now a simple Cli for anyone wishing these capabilities would exist directly on the command line.

.. code:: bash

    usage: lz4toolsCli [-h] [-f] [-t] [-d] [-i] [-bs {4,5,6,7}] [-bm {0,1}] input [output]

    positional arguments:
        input    The targeted input.
        output   Optional output target.

    optional arguments:
        -h, --help    show this help message and exit
        -f            Compress file. Default action if input is a file.
        -t            Compress directory to .tar.lz4. Default action if input is a
directory
-d   Decompress file. Default action if the file ends in .lz4.
-i   Print frame information from the file's header.
-bs {4,5,6,7} Specify blkSizeId. Valid values are 4-7. Default value is 7.
-bm {0,1} Specify blkMode. 0 = Chained blocks. 1 = Independent blocks
   Default value is 0.

C-Module / Bindings:
I would recommend against using lz4f directly except in debug/testing situations. If necessary, a compress or decompress operation first needs a context that will be used with all lz4f functions:

**lz4f compression the hard way:**

.. code:: python

   >>> import lz4f
   >>> inputFile = open('fileIn', 'rb')
   >>> cCtx = lz4f.createCompressionContext
   >>> header = lz4f.compressBegin(cCtx)
   >>> data = lz4f.compressUpdate(inputFile.read(), cCtx)
   >>> end = lz4f.compressEnd(cCtx)
   >>> with open('output.lz4', 'wb') as out:
   ...     out.write(header)
   ...     out.write(data)
   ...     out.write(end)
   ...     out.flush()
   ...     out.close()
   >>> lz4f.freeCompContext(cCtx)
   >>> inputFile.close()
   >>> del header, data, end

**lz4f compression the easy way:**

.. code:: python

   >>> import lz4f
   >>> with open('output.lz4', 'wb') as out:
   ...     with open('fileIn', 'rb') as inFile:
   ...         out.write(lz4f.compressFrame(inFile.read()))
   ...     out.flush()
   ...     out.close()

**Advantages and disadvantages:**

The easy way takes more ram. It reads the contents of the file into a buffer, passes it and compresses it all in one
go. With the hard way you can have it read as little or as much as you like. For instance, you can break up the input into 64kiB chunks. Each chunk could be read, compressed and dropped to disk to conserve ram.

----

Lz4Tools Module:
The lz4file class is currently read only. Right now it is a bit rough around the edges, however over the next couple of weeks, I will finish adding some docstrings, and such to make it more user friendly. As soon as I get a chance I will make it write capable. The easiest way to use it is with either the open or openTar methods. That's right! There is a lz4Tar class in the module that is a subclass of tarfile.

**lz4tools tar example:**

```python
>>> import lz4tools
>>> lz4tools.compressTarDefault('src')
>>> testTar = lz4tools.openTar('src.tar.lz4')
>>> testTar.list()
-rwxr-xr-x darkdragn/darkdragn          0 2014-10-02 23:06:09 src/
-rw-r--r-- darkdragn/darkdragn      29905 2014-09-16 18:29:45 src/lz4hc.c
-rw-r--r-- darkdragn/darkdragn       6781 2014-09-16 18:29:45 src/xxhash.h
-rw-r--r-- darkdragn/darkdragn       6781 2014-09-16 18:29:45 src/xxhash.c
-rw-rw-r-- darkdragn/darkdragn      25662 2014-10-02 20:22:09 src/lz4frame.h
-rw-rw-r-- darkdragn/darkdragn      13894 2014-10-02 20:22:09 src/lz4frame.c
-rw-r--r-- darkdragn/darkdragn       8832 2014-09-16 18:29:45 src/lz4hc.h
-rw-rw-r-- darkdragn/darkdragn      11734 2014-10-02 23:06:08 src/python-lz4f.c
-rw-rw-r-- darkdragn/darkdragn      50141 2014-10-02 23:04:05 src/lz4frame.c
```

**lz4tools file example:**

```python
>>> import lz4tools
>>> lz4tools.compressFileDefault('setup.py')
>>> testFile = lz4tools.open('setup.py.lz4')
>>> testFile.blkDict
{0: {'decomp_e': 1445, 'compressed_begin': 7, 'blkSize': 923}}
>>> testFile.seek(1002)
>>> print testFile.read()
    test_suite = "nose.collector",
    keywords = ['lz4', 'lz4frame', 'lz4file', 'lz4tar'],
```
And thus ends the brief tutorial.

Notes

Version:
The first two digits of the version will always correspond with the version of lz4 that is included. Current version is r124, thus 1.2. The next digit corresponds to milestone improvements. Example: Once lz4file supports write. The last digit will be slight improvements. Usually some contextual error, or syntax error. Perhaps even a quick fix for python3.4, since I don't use it often, if an issue is brought to my attention, I will provide a quick fix as quickly as possible.

Keywords: lz4,lz4frame,lz4file,lz4tar
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: License :: OSI Approved :: BSD License
Classifier: Intended Audience :: Developers
Classifier: Programming Language :: C
Classifier: Programming Language :: Python
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 :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4

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Open Source Used In Crosswork Optimization Engine 4.0.0  8590

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LZ4 - Fast LZ compression algorithm
Header File
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xxHash - Extremely Fast Hash algorithm
Header File
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1.1128 yang-xpath-impl 5.0.7

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

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

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

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Oracle

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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

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

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Apache

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/ws_local/PERMITS_SQL/1092525106_1600740951.4/0/pax-jdbc-sqlite-1-4-4-sources-jar/org/ops4j/pax/jdbc/sqlite/impl/SqliteDataSourceFactory.java

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1.1133 brotli 1.0.9-r5
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1.1135 gson 2.9.0

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Found in path(s):
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
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* /opt/cola/permits/1296849109_1648622539.88/0/gson-2-9-0-sources-jar/com/google/gson/internal/bind/NumberTypeAdapter.java

1.1136 jersey-server 2.6

1.1137 backcall 0.2.0

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1.1138 netty-codec 4.1.52.Final

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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
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  jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.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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/
/*
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/xml/package-info.java
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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/serialization/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUn marshallerProvider.java
We found the following open source libraries used in Crosswork Optimization Engine 4.0.0:

- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/MessageToMessageEncoder.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/bytes/package-info.java

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- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/string/LineSeparator.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/string/LineEncoder.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/CodecOutputList.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/DateFormatter.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/DatagramPacketDecoder.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/compression/ByteBufChecksum.java
- /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/jar/io/netty/handler/codec/compression/CompressionUtil.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.
* 
* \{@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)
* 
* \<table\>
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
* \</pre\>
* 
* \<h3\>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset  = 0
* lengthFieldLength  = 2
* lengthAdjustment   = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset  =  0
* lengthFieldLength  =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
* 
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                  AFTER DECODE (17 bytes)
* +----------------------------------------+----------------------------------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
* +----------------------------------------+----------------------------------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                  AFTER DECODE (17 bytes)
* +----------------------------------------+----------------------------------------+
* |  Length | Header 1 | Actual Content |----->|  Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |      | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +----------------------------------------+----------------------------------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToStrip</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)
* +----------------------------------------+----------------------------------------+
* </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.

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.

```
lengthFieldOffset = 1
lengthFieldLength = 2
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
```

```
| HDR1 | Length | HDR2 | Actual Content | HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD" |
```

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* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/headers-utils.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32Decoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32Encoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FramePrepender.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FieldFramePrepender.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FrameDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/protobuf/Varint32FrameEncoderNano.java

1.1139 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/OpenApiOperationTagsReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerMediaTypeReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/VendorExtensionsReader.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/SwaggerOperationModelsProvider.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/web/UiConfigurationBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/DocExpansion.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/TagsSorter.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/schema/ApiModelProperties.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiResponseReader.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/schema/ApiModelProperties.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiResponseReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/ResponseHeaders.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/ResponseHeaders.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/schema/ApiModelBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResourcesProvider.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/apiKeyVehicle.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java

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1.1159 jetty-http 9.4.48.v20220622

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

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

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

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

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

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* java.sun.security.ssl

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

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

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Apache

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

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
Open Source Used in Crosswork Optimization Engine 4.0.0

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.1160 ops4j-base-io 1.5.0

1.1161 jackson-datatype-jdk8 2.13.3
1.1161.1 Available under license:
   Apache-2.0

1.1162 urllib3 1.26.2
1.1162.1 Available under license:
   # Contributions to the urllib3 project
   ## Creator & Maintainer
* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Boris Figovskiy <boris.figovskiy@ravellosystems.com>
  * Allowed to skip SSL hostname verification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

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

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

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

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

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

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

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

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

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

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

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

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

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

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

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

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

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

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

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

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

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

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

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

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

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

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

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Keiichi Kobayashi <abok.1k@gmail.com>
* Rename VerifiedHTTPSConnection to HTTPSConnection
* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

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

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

* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

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

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SOFTWARE.

1.1163 keyutils 1.6 6ubuntu1
1.1163.1 Available under license:

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
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1.1168 jackson-databind 2.13.3

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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.salaranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.1170 apache-servicemix-bundles-serp
1.14.1_1

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1.1171 netty-codec-http 4.1.48.Final

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jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/StreamByteDistributor.java
* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java
* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java

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jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
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jar/io/netty/handler/codec/http2/Http2ListenerDecorator.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/util/concurrent/ClosingFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/graph/AbstractBaseGraph.java

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jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/RegularImmutableAsList.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/TreeTraverser.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>TODONEb: support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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*/
/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
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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
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jar/com/google/common/hash/AbstractHashFunction.java
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 */
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* Holder for web specializations of methods of [@code Floats]. Intended to be empty for regular
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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/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/Partially.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
  jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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  jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
  jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
  jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
  jar/com/google/common/base/CommonPattern.java
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jar/com/google/common/reflect/Reflection.java
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jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
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
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-

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* /opt/cola/perms/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToken.java
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* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/DenseImmutableTable.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1292116189_164793632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Platform.java
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jar/com/google/common/collection/ImmutableSortedAsList.java
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jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/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
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jar/com/google/common/io/ReaderInputStream.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></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/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/ImmutableSortedMapFauxveridleShim.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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jar/com/google/common/primitives/IntsMethodsForWeb.java

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jar/com/google/common/collection/TreeMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/LexicographicalOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/AbstractListMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/ForwardingMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/Multiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/AbstractMapBasedMultimap.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/ForwardingSet.java
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*/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/ForwardingQueue.java
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*/opt/cola/permits/1292116189_1647933632.95/0/guava-31.1-jre-sources-jar/com/google/common/cache/AtomicDoubleArray.java
*/opt/cola/permits/1292116189_1647933632.95/0/guava-31.1-jre-sources-jar/com/google/common/hash/Striped64.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteSink.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteSink.java
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/ByteSource.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/FilteredKeyMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/FileWriteMode.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/GwtTransient.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SortedMultisets.java

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/**
* Holder for web specializations of methods of [@code Doubles]. Intended to be empty for regular
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*/

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/collection/ForwardingListMultimap.java
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jar/com/google/common/primitives/Platform.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/util/concurrent/Internal.java
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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/collection/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/util/StandardMutableNetwork.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/GraphConstants.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/GraphNode.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/GraphVisitor.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/GraphVisitorWithNodes.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardGraphBuilder.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardGraphFactory.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardGraphNode.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/StandardGraphVisitor.java
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jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/CollectCollectors.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/MoreCollectors.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/LinkedHashMultimapGwtSerializationDependencies.java
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jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/graph/EndpointPairIterator.java
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jar/com/google/common/math/Quantiles.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SortedIterable.java
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1.1175 yang-parser-impl 5.0.7

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1.1177 python-certifi 2021.10.08

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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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1.1178 ecj 4.5.1
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1.1179 six 1.16.0

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1.1180 jaxb-api 2.3.0

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<td>2010</td>
<td>PSF</td>
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(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/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/parser/JSONStyle.java
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* /opt/cola/permits/1000738114_1651084661.34/0/json-smart-2-2-1-sources-jar/net/minidev/json/JSONStreamAwareEx.java

1.1187 xbean-reflect 4.17
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1.1189 python-certifi 2019.11.28
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConnections.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/io/LineReader.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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  jar/com/google/common/collection/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ExecutionSequencer.java

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  jar/com/google/common/util/concurrent/IgnoreJRERequirement.java

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jar/com/google/common/hash/HashFunction.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/RangeSet.java
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  jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableSortedMultiset.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/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ObjectArrays.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/TimeoutFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/coll/FilteredKeySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/coll/filteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/coll/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/CompactLinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/FilteredSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/CompactHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-
  1-jar/com/google/common/coll/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingNavigableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractNavigableMap.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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*/

/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/Table.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/EmptyImmutableListMultimap.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CollectPreconditions.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/HashBasedTable.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMultimap.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Platform.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TreeBasedTable.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/StandardRowSortedTable.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMap.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Range.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableIterator.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapKeySet.java  

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*/  
/**  
* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular  
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*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java
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  jar/com/google/common/graph/IncidentEdgeSet.java
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  jar/com/google/common/collect/CompactHashing.java
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  jar/com/google/common/graph/AbstractBaseGraph.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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 */

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 * the License.
 */
/**
 * 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 {@link 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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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
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Not supported. <b>You are attempting to create a map that may contain a non-<code>Comparable</code> key.</b> Proper calls will resolve to the version in <code>ImmutableSortedMap</code>, not this dummy version.

* @throws UnsupportedOperationException always

* @deprecated <b>Pass a key of type <code>Comparable</code> to use <code>ImmutableSortedMap</code>.</b>

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  jar/com/google/common/collection/SingletonImmutableList.java
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1.1193 hawtjni-runtime 1.17
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1.1194 pax-web-resources-jsf 7.2.16
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  jar/org/ops4j/pax/web/resources/jsf/JsfResourceQueryResult.java
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* /opt/ws_local/PERMITS_SQL/1092524052_1600746792.15/0/pax-web-resources-jsf-7-2-16-sources-
  jar/org/ops4j/pax/web/resources/jsf/internal/FacesServletMapping.java

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  jar/org/ops4j/pax/web/resources/jsf/internal/ResourceHandlerUtils.java
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  jar/org/ops4j/pax/web/resources/jsf/internal/package-info.java
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  jar/org/ops4j/pax/web/resources/jsf/internal/VersionComparator.java
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1.1195 commons-logging 1.2

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  jar/org/apache/commons/logging/package.html
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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  jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
  jar/org/apache/commons/logging/Log.java

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  jar/org/apache/commons/logging/impl/ServletContextCleaner.java

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1.1196 ietf-netconf-monitoring 1.9.1

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1.1197 metrics-jmx 4.1.12.1

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1.1198 iniconfig 1.1.1

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# SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.
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# MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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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/1346931625_1655514411.2128417/0/netty-transport-4-1-78-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.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>
* </ul>
* 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>
* For more information, please refer to the documentation of each subtype.
* 
* <h3>The context object</h3>
* 
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
* // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
* 
* &lt;b&gt;private boolean loggedIn;&lt;/b&gt;
* 
* &lt;code @Override&gt;
* public void channelRead0(&lt;@link ChannelHandlerContext&gt; 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();
* }
* }
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}<{@link Channel}> {
    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}
```

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by
{@link ChannelHandlerContext}:

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

{@code @Sharable}
public class DataServerHandler extends {@link 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) {
        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();

    `@Override`
    public void initChannel(`@link Channel` 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 instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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/////
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.
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.

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ca-legacy(8)
============
doctype: manpage
:man source: ca-legacy

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.

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# 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
# CKAModificar          CK_BBOOL            CK_FALSE
# 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
# 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
# Certificate Type: CK_Certificate
# Subject: 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
# Not Valid Before: Tue Sep 01 12:00:00 1998
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# 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

# 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

# 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

# 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

# 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

# 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

# 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
# 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:e3:94
# 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\213\324\364\235\142\052\250\232\201\362\025\001\122
\244\035\202\234

CKA(cert_md5_hash) MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212

CKA(issuer) MULTILINE_OCTAL
\060\127\061\013\060\001\1006\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\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

CKA(serial_number) MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\001\025\113\132\103\224

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:86:26: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 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 - 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\103\101\040\
\055\040\122\062\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\062\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\013\004\000\000\000\000\000\001\017\206\046\346\015
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\022\244\240\003\002\001\001\002\002\013\004\
\000\000\000\000\000\000\017\206\046\346\015\010\011\052\206\110\
\206\367\015\001\000\005\000\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\050\040\122\062\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\060\036\027\015\060\060\060\060\060\102\62\
\065\060\070\060\060\060\060\060\132\027\015\062\061\061\062\061\065\
\006\070\060\060\060\060\060\132\060\114\061\040\060\036\006\003\125\
\004\013\022\039\027\107\154\157\142\141\154\123\151\147\156\040\122\
\157\157\164\040\103\101\040\055\050\040\122\062\061\023\060\021\006\010\
\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156\
\061\013\026\060\021\006\003\125\004\003\023\012\107\154\157\142\141\154\
\121\151\147\156\060\020\001\042\060\015\006\011\052\206\011\0\206\67\
\015\000\000\000\000\000\000\000\000\000\000\000\000\000\000\000\
\012\002\002\001\001\000\024\63\170\044\016\276\056\157\050\231\1105\
\102\034\025\076\041\124\233\013\323\177\204\160\372\022\263\313\
\277\207\137\036\177\206\323\262\060\134\326\375\255\361\173\334
\345\370\140\226\011\222\020\365\320\123\336\373\173\176\163\210
\254\212\210\173\112\246\312\111\246\136\250\247\214\132\021\274
\172\020\353\276\214\351\126\325\242\260\045\007\227\112\231\052\007
\057\264\036\161\277\212\017\265\002\174\033\226\262\70\305\271\072
\054\274\326\022\271\353\131\175\342\320\006\206\137\136\111\115
\265\071\136\210\64\365\342\274\170\014\50\010\230\202\041\45\250\315\113
\264\240\175\014\171\115\360\270\055\331\041\131\325\154\133\175
\341\240\051\204\241\371\332\224\111\330\044\142\221\040\274\343
\013\253\331\143\371\352\047\012\053\163\322\130\062\235\033\254\310
\313\335\034\204\364\057\220\213\115\373\260\066\033\366\031\172
\205\340\155\362\141\023\210\212\121\227\221\212\132
\316\257\325\356\375\252\011\252\140\275\033\331\137\337\162\251
\140\023\136\000\001\131\112\372\077\244\352\007\003\041\002\216
\202\312\003\302\233\217\002\003\000\100\000\012\243\201\234\060\201
\231\060\160\006\003\125\035\017\001\000\137\000\040\004\003\002\001
\006\060\017\006\003\125\035\023\001\000\137\000\040\005\060\003\001
\001\137\060\035\000\006\003\125\035\016\004\026\004\024\233\342\007
\127\147\034\036\030\152\020\006\336\131\264\223\055\337\334\031\206
\056\060\066\000\003\125\035\037\004\057\060\055\060\053\240\051
\240\047\206\045\150\164\164\160\072\050\057\051\143\162\154\056\147
\154\157\142\114\154\163\151\147\156\056\165\164\156\057\162\157
\157\164\055\162\062\205\143\162\154\060\037\060\003\125\035\043
\004\030\060\026\020\002\243\334\007\127\147\034\036\300\152\006
\336\131\264\223\055\337\334\031\206\056\060\015\006\011\052\206
\110\026\367\015\001\001\005\005\000\003\322\001\001\000\231\201
\123\207\034\151\022\270\062\221\354\340\112\270\104\013\253\201\254
\047\117\326\301\270\034\103\170\263\014\232\374\352\054\074\156
\014\333\115\113\035\136\523\007\050\354\046\301\270\351\203\000\142
\105\266\251\010\223\271\251\063\113\030\232\302\370\027\210\116
\333\335\161\064\032\301\124\332\106\077\340\323\052\253\155\124
\042\365\072\421\350\404\157\272\051\121\327\335\221\356\323\134
\124\076\241\113\101\365\337\345\144\103\055\331\125\071\253\322
\242\337\267\213\332\030\200\031\103\105\300\055\214\350\370\055
\244\161\126\113\050\055\265\117\025\336\161\104\170\071\207\250
\176\273\363\171\030\221\273\364\157\235\301\136\024\141\135
\001\137\303\155\271\357\104\155\171\106\061\176\012\376\251\202
\301\137\375\253\156\040\034\120\311\137\235\115\233\027\214\014
\345\001\131\124\010\115\163\123\372\245\120\264\156\045\017\373
\114\030\364\375\122\331\126\151\261\350\021\173\336\210\130\037
\035\111\367\252\336\225\170\040\170\302\140\022\333\045\001\214
\152\374\176\102\070\100\144\022\367\236\201\341\123\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

Open Source Used In Crosswork Optimization Engine 4.0.0  9292
# Serial Number: 04:00:00:00:01:0f:86:26: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 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 - R2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\165\340\253\266\023\205\022\047\034\004\370\137\335\336\070\344
\267\044\056\376
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\224\024\167\176\076\136\375\217\060\275\101\260\317\347\320\060
END

CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157\
\142\115\154\123\151\147\156\040\122\157\151\147\156\040\122\157\151\147\156\040\122\157\151\147\156
\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\001\017\206\046\346\015
END

CKA_CERTIFICATION AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
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 "Verisign Class 1 Public Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,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=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
# 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

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 "Verisign Class 1 Public Primary Certification Authority - G3"

END

# CKA_ISSUER MULTILINE_OCTAL

END
# 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

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_CLASS**: CK_OBJECT_CLASS 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_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

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# 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
\333\041\117\206\231\210\264\016\206\066\127\335\320\200\025\057\305\255\177
\205\037\067\142\163\076\324\347\137\316\207\003\333\065\372\053
\333\256\140\011\137\036\372\217\156\273\013\075\352\320\025\057
\014\140\157\265\300\206\043\042\056\007\013\331\251\164\313\07
\273\035\301\327\245\153\314\057\322\102\375\111\135\247\211\017
\123\327\323\200\013\205\027\202\337\370\272\023\038\120\206\202
\375\216\060\217\051\106\260\036\075\065\332\070\142\026\030\112
\255\346\266\121\154\330\257\142\335\001\132\036\044\376\172\217
\022\032\022\150\231\024\024\105\134\256\347\256\151
\027\201\053\132\020\67\311\136\052\364\030\342\241\134\124\233\246
\124\000\317\360\361\301\307\023\060\032\073\066\262\333\243\156
\352\375\255\262\032\322\357\002\107\023\212\300\361\263\061\125
\117\034\341\117\234\257\017\014\235\367\170\015\330\364\065\126
\200\332\267\155\027\217\235\036\201\144\341\376\305\105\272\255
\153\271\012\172\116\117\133\204\356\113\136\175\335\021
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 - 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
CKA_CLASS CK_OBJECT_CLASS 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 - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\023\055\015\105\123\113\151\227\315\262\325\303\071\342\125\166
\140\233\134\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\150\266\247\307\304\316\165\340\035\117\127\104\141\222\011
END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\23\002\125\123
\061\027\060\025\060\003\125\004\012\023\161\126\143\162\151\123
\151\147\156\054\040\111\156\143\056\061\307\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
Open Source Used In Crosswork Optimization Engine 4.0.0 9304

# Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:4c:00:36:1b:e5:08:2b:a9:aa: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)"

CKA_ISSUER MULTILINE_OCTAL
\060\020\131\061\013\030\060\011\006\003\112\050\004\000\060\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\115\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\130\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\161\163
\145\040\157\156\054\171\061\105\060\103\006\003\125\004\000\032
\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
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
Open Source Used In Crosswork Optimization Engine 4.0.0  9308
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

CKA_CLASS CK_OBJECT_CLASS 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\136\313\347\222\175\175
\145\055\064\061

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220

CKA_ISSUER MULTILINE_OCTAL
\060\021\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\116\161\165\163\164\056\156\145\164\061\100\060\076\060\003\125
\004\013\024\067\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\010\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\061\045\060\043\006
```
\031\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\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\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\143\036\336\370
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\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

CKA_CLASS CK_OBJECT_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

```

```
0601\320\013\036\001\110\006\003\132\004\006\023\002\111\105\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\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END

```

```
0601\320\013\036\001\110\006\003\132\004\006\023\002\111\105\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\103\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END

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Open Source Used In Crosswork Optimization Engine 4.0.0  9312

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
# 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
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\324\336\040\320\136\146\002\323\304\002\122\157\157\164
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\002\254\266\224\245\234\027\340\032\221\122\233\261\227\006\246\344
END

CKA_ISSUER_MULTILINE_OCTAL
\060\132\060\011\000\000\125\004\006\023\002\111\105\061
\022\060\020\000\003\125\004\012\239\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\012\141\154\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
# 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:3D:F4

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\001\11\006\003\125\004\006\023\002\125\013
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\115\164\056\061\071\060\067\006\003\125\004
\013\023\006\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\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
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\115\164\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\161\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
END

# 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:87:92:1F:1D: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"
CKA_CERT_SHA1_HASH 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\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\111\165\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\131\145\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\151\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\060\003\125\004\003\023\044\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
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 "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_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
Open Source Used In Crosswork Optimization Engine 4.0.0  9318

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# Trust for Certificate "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# 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


```
\226\052\202\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\367\165\253\051\373\121\116\126\71\167\136\377\005\074\231\216\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\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\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\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\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\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\061\036\060\034\006\003\125\004\003
```
# 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 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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\346\041\363\065\103\171\005\232\113\150\060\235\212\057\164\042\025\207\354\171
END
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\010\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
# 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

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 "GeoTrust Universal CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\125\105\065\014\246\003\151\363\074\056\257
\107\171\040\171
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\302\362\333\217\344\224\307
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\070\066\011\067\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
# 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_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 "Certum Root CA"
#
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
\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
\020\001\000\040 END

CKA_VALUE MULTILINE_OCTAL
\060\022\003\014\046\020\020\001\134\240\003\002\001\1002\002\003\001
\000\040\006\015\006\011\052\020\061\102\063\367\015\001\001\005\005
\000\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
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
\101\060\036\027\015\060\062\060\066\061\061\060\064\066\063
# 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\107\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
\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
CKA_CLASS CK_OBJECT_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"
# 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)
# 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_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\140\027
\144\330\343\111
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
\144\330\343\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\001\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\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
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
\121\165\157\126\141\144\151\163\040\103\145\162\164\151\146\151
\143\141\164\145\040\120\157\154\151\143\171\056\060\042\006\010
\053\006\010\005\005\007\002\000\1\026\026\1\051\016\164\161\007\057\167\167\167\056\161\165\157\166\141\144\151\163\056\142\155
\060\035\006\003\125\035\016\004\026\004\024\213\111\135\155\353\323
\105\127\180\060\031\135\071\071\1\251\136\022\204\1\52\0\33\135\7\337\060
\20\125\06\006\003\125\035\043\004\20\124\66\060\02\1243\200\024\213
\11\13\155\353\1\23\051\171\006\03\135\071\071\1\251\136\022\204\1\52
\31\13\35\37\2\41\20\124\24\24\20\121\060\177\061\013\060\011\006
\003\125\004\006\023\002\121\156\031\060\027\006\003\125\004
\01\20\23\02\02\121\165\157\126\141\144\151\163\040\114\151\155\151
164\145\144\061\045\060\043\006\003\125\04\01\32\03\04\122\157
157\164\040\1\03\145\162\164\151\146\151\134\141\164\151\157\156
140\101\165\164\150\157\162\151\164\171\061\056\060\054\006\003
125\004\003\02\03\04\121\165\157\126\141\144\151\163\040\122\157
157\164\040\1\03\145\162\164\151\146\151\134\141\164\151\157\156
140\01\165\164\150\157\162\151\164\171\202\004\072\266\120\213
19\060\16\060\006\03\125\03\01\7\001\1\377\004\004\003\002\001
06\001\1\50\006\011\052\20\01\206\367\01\15\00\01\005\005\000\003
20\20\00\01\000\2\13\24\02\265\376\364\232\222\1\247\031\1\242\144
176\12\03\02\17\33\1\15\01\1\42\04\33\51\1\14\1\1\1\22\04\252
13\6\07\34\2\13\26\0\11\15\06\2\30\0\2\30\0\14\1\35\0\3\3\3\15\03\016
31\6\3\7\10\12\0\40\1\16\37\0\30\0\4\3\7\2\75\2\62\3\16\36\5\047\374
35\4\0\0\0\7\13\0\0\0\7\16\1\64\1\51\3\6\4\0\0\2\6\3\16\5\33\2\45\056
30\4\2\7\1\2\6\0\4\1\2\0\5\3\1\42\2\7\2\2\6\1\1\3\0\0\7\4\1\2\5\1\3\4\1\0\35
04\42\7\6\2\0\2\0\4\0\17\3\5\3\2\5\1\4\1\7\6\1\2\0\2\6\1\5\0\3\3\7\17\5\11\121
160\170\172\0\35\0\63\0\63\7\5\0\2\2\3\1\2\3\0\1\4\3\1\5\0\2\0\0\5\1\17\3\07
27\3\2\1\2\4\4\1\6\9\37\2\1\2\1\5\5\2\1\2\0\2\1\6\0\1\1\2\6\2\7\1\2\3\4\0\2\140
37\6\1\35\30\1\2\2\7\1\2\3\4\0\2\1\7\0\3\2\0\3\2\6\1\3\5\3\0\1\2\6\7\3\2\5\2\55\062
23\1\0\0\3\0\2\2\1\2\3\1\4\1\2\4\0\4\5\0\7\0\1\6\1\2\0\1\1\7\3\0\2\3\0\4\2\1\2\2\7\106
15\4\2\1\2\7\3\2\6\0\4\1\5\4\1\1\0\4\6\1\6\2\4\3\2\2\1\6\3\3\5\3\1\4\0\60
24\2\3\4\6\3\5\2\1\1\0\4\2\0\2\0\3\7\0\2\2\7\3\6\5\0\1\6\3\7\3\5\2\1\4\2\2\2\44\026
30\4\1\2\2\0\3\0\3\5\2\0\4\1\3\1\6\2\6\1\3\6\1\3\4\0\2\0\2\0\3\4\5\2\7\2\2\5\1\2\0\0\50
36\2\1\0\3\1\2\5\0\2\2\2\3\5\2\0\4\0\3\6\3\1\2\5\0\3\5\0\1\2\1\5\2\2\4\7\1\7\5\240
2\0\7\0\5\1\3\7\3\6\2\2\1\1\1\5\3\2\4\3\5\4\0\3\5\3\2\4\2\6\1\7\2\3\2\0\6\0\4\3\2\12
\11\2\1\6\0\0\6\371
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFT CK_BBOOL CK_FALSE

# 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
# 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_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\001
\000\211\166\311
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\336\066\376\162\267\000\000\000\235\364\360\036\154\004\044
END

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\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\103\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\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\004\072\266\120\213
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 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\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\103\060\011\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\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\101\040\062
# 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_ISSUER MULTILINE_OCTAL
\060\105\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\033\060\031\106\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063

CKA_SUBJECT MULTILINE_OCTAL
\060\105\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\033\060\031\106\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_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306

END

CKA_VALUE MULTILINE_OCTAL
\060\202\202\200\206\223\205\206\202\200\204\205\205\204\200\203\202\202\200\205
\306\060\015\006\011\052\206\110\206\201\000\015\000\206\200\205
\206\205\061\013\206\001\010\060\201\003\125\004\006\023\002\102\115\061
\031\060\027\006\200\003\125\004\012\203\200\221\121\165\157\126\141\144

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Open Source Used in Crosswork Optimization Engine 4.0.0
# 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\035\335\256\002\300\276\375\072\055
\020\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\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\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\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\030
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\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\000\03\125\004\012\23\017\123\105\013\117\115\040
\124\162\165\163\164\056\156\145\164\061\104\160\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\013\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\006\000\03\125\004\012\23\017\123\105\013\117\115\040
\124\162\165\163\164\056\156\145\164\061\104\160\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\013\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\001\000
END

CKA_VALUE MULTILINE_OCTAL
\060\022\003\132\060\202\002\102\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\036\7\015\001\001\005\005\000\060
\120\061\101\060\011\006\003\125\004\006\023\002\112\120\061\030
\060\026\006\003\125\004\012\23\017\123\105\013\117\115\040\124
\162\165\163\164\056\156\145\164\061\047\060\045\000\006\000\125
\013\023\036\123\145\143\165\162\151\164\171\040\013\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END

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\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\165\040\122\157\157\164
\103\101\061\060\020\001\042\060\015\006\011\052\206\110\206\036
\015\001\001\001\005\000\000\03\202\001\017\000\060\020\001\012\002
\202\001\001\000\026\263\263\376\177\323\155\261\357\026\174\127\245
\014\155\166\122\057\113\227\144\333\114\356\212\363\363\051\174
\365\377\356\052\340\351\351\123\133\144\042\232\232\157\054\072
\046\151\121\055\231\046\334\325\152\161\306\223\175\036\023
\335\174\154\306\021\147\147\112\076\370\016\126\031\047\25\111
\014\24\22\25\27\113\214\014\372\125\230\073\330\350\042\24\113
\161\107\171\254\227\222\151\263\211\176\352\041\150\006\230\024
\226\207\322\141\066\274\155\047\126\236\127\356\030\001\126\375
\062\317\244\331\126\020\043\327\215\250\363\330\045\25\42\22\344
\160\070\364\266\072\226\235\073\227\046\103\243\241\274\111\111
\162\211\043\060\020\07\001\113\036\166\162\76\034\150\126\146\257\315
\101\113\351\102\263\111\050\212\256\062\53\037\332\036\342\100\075\333
\315\157\271\222\200\234\067\335\014\226\144\235\334\042\367\144
\213\337\141\363\025\224\122\025\240\175\71\221\311\113\250\041\131
\306\261\135\333\033\225\140\321\017\360\253\160\370\337\313\115
\176\354\326\372\253\331\275\177\124\362\254\351\171\372\331\316
\166\044\050\163\002\003\000\100\001\243\077\060\075\060\035\006
\003\125\035\160\040\026\004\024\240\163\111\123\111\150\334\20\513
\145\343\233\050\057\127\237\275\063\274\007\110\060\011\130\066\003
\125\035\017\004\004\003\002\001\000\060\060\17\006\060\031\125\035\023
\001\0\17\004\004\050\060\003\001\0\137\07\060\105\066\110\152\206
\110\206\367\015\001\005\050\000\03\202\000\100\100\150\100
\251\250\273\344\117\135\171\263\005\265\027\263\140\023\153\306
\212\135\340\321\323\152\376\373\276\233\155\277\307\005\155\131
\040\304\034\360\267\332\020\130\002\14\337\21\102\263\357\117\245
\013\367\112\230\362\077\236\033\255\107\153\143\316\010\107\353
\12\07\102\334\257\115\256\367\030\251\173\172\322\230\052\020\101
\071\122\304\353\331\233\016\357\223\012\156\262\056\312\150\102
\044\102\154\260\263\072\076\135\351\332\110\304\025\313\351\371
\007\017\222\120\111\12\335\061\122\173\311\351\067\252\073\313
\145\227\224\062\311\126\237\076\072\142\130\051\11\255\142\016
\161\124\056\225\057\306\211\166\103\00\23\023\147\075\242\124
\045\020\313\061\072\362\331\372\333\111\126\273\246\376\247\101
\065\303\340\210\141\131\120\037\337\066\20\042\230\131\152\260
\12\037\126\026\163\156\254\115\367\042\224\117\255\035\172\055
\105\047\345\060\031\136\362\322\023\331\304\102\121\225\107\003
\124\141\54\041\134\164\102\355\123\377\063\213\217\017\127\001\026
\057\317\124\365\363\111\160\042\024\275\375\276\154\013\003
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 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\061\013\060\001\100\006\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\145\164\061\047\060\045\006\003\125
\004\013\023\066\123\145\143\165\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\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 "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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\001\110\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\060\003\125\004\003\023\020\123\157\156\145\162
\141\040\013\154\141\163\163\062\040\013\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\060\003\125\004\003\023\020\123\157\156\145\162
\141\040\013\154\141\163\163\062\040\013\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\035
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\040\060\202\020\020\003\002\001\002\002\001\035
\060\015\006\011\010\206\110\206\367\015\001\001\005\005\000\060
\071\061\013\060\001\110\006\003\125\004\006\023\002\106\111\061
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\060\003\125\004\003\023\020\123\157\156\145\162
\141\040\013\154\141\163\163\062\040\013\101
\060\064\060\060\060\060\067\062\071\064\060\013\020\015\062\061\060
\064\060\060\060\067\062\071\064\060\013\020\015\062\061\060
\060\064\060\060\067\062\071\064\060\013\020\015\062\061\060
\006\003\125\004\006\023\002\106\111\110\017\060\001\150\060\000\125
\004\003\030\023\020\123\157\156\145\162\141\040\013\154\141\1163
\163\062\040\103\151\001\060\020\020\001\042\060\015\006\001\005\006\000\000\002
\020\020\101\007\000\005\060\020\020\001
\012\020\020\020\001\000\020\020\112\065\235\321\236\015\226\307
\104\372\020\60\067\374\110\275\275\177\200\055\065\073\341\157\250
\147\251\277\003\034\115\214\157\062\107\325\210\150\244\023\004
\301\065\012\232\204\020\133\034\134\055\377\211\263\350\027\030\315
\221\137\373\211\134\352\277\116\135\174\043\046\323\165\171\355
\346\204\344\127\345\255\501\304\364\072\205\034\245\173\204\066
\151\263\375\136\166\275\243\055\231\323\220\116\043\050\175\030
\143\361\124\073\046\235\166\133\227\102\262\377\256\360\116\354
\335\071\125\116\203\006\177\347\111\100\310\305\001\262\124\132
\146\035\075\374\371\351\074\012\236\201\127\016\360\000\121\133
\043\124\174\310\256\370\200\036\000\226\162\324\124\317\141\043
\274\352\373\235\002\225\321\266\271\161\072\151\100\077\017\264
\341\102\307\210\365\077\230\250\247\272\204\340\161\161\135\710
\127\201\120\172\134\153\164\106\016\203\003\230\303\216\250\156
\362\166\062\156\047\203\302\163\363\334\030\350\264\223\352\165
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 "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\035\261\076\223\032\267\101\020\264
\362\344\232\047
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\243\354\165\017\056\210\037\372\110\001\116\013\134\110\157\373
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

# 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_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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\077\061\013\060\001\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\067\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\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\040\103\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END

CXA_ID UTF8 "0"
CXA_ISSUER_MULTILINE_OCTAL
\060\077\061\013\060\001\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
# 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
CKA_CLASS CK_OBJECT_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\130\060\011\100\063\003\125\004\006\023\002\105\125\061\047\060\045\006\003\125\004\012\023\036\101\103\040\010\013\141\155\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\103\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\006\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\130\060\011\100\063\003\125\004\006\023\002\105\125\061\047\060\045\006\003\125\004\012\023\036\101\103\040\010\013\141\155\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\103\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\006\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_VALUE MULTILINE_OCTAL
\060\202\004\305\060\020\023\035\249\003\002\001\000\002\002\001\000\060\015\000\060\011\052\026\011\026\036\015\000\001\000\005\050\000\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061\060\045\006\003\125\004\012\023\036\101\103\040\010\013\141\155\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004\013\103\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\006\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_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 "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\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\172\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\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\116\125\141\140\123\101\104\103\111\116\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\160\072\057\057\167\167\167\160\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
END

Open Source Used In Crosswork Optimization Engine 4.0.0 9354


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\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

#
# Certificate "XRamp Global CA Root"
#
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=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_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\000\03\125\004\006\023\002\125\123
\061\036\060\034\060\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\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\11\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\141\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\000\03\125\004\006\023\002\125\123
\061\036\060\034\060\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\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\11\156\143\061\055\060\053\006\003\125\004\003\023
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Open Source Used In Crosswork Optimization Engine 4.0.0 9355
\076\372\362\305\055\323\375\324\145\000\200\003\001\000\000\01\243\201
\237\060\202\234\060\202\03\00\01\01\053\006\001\004\001\202\067\024
\002\004\006\003\04\000\01\03\000\01\01\060\013\01\060\003\125\035\017
\004\004\004\003\002\001\02\06\000\01\07\060\003\125\035\032\001\000\137
\004\005\060\003\001\000\137\060\035\006\003\125\035\016\004\026
\004\024\030\061\17\242\075\006\14\230\040\11\234\316\14\232\44\004\254
\215\134\265\351\266\033\060\060\060\060\125\035\037\004\057\060
\055\060\053\240\051\240\047\206\045\150\164\164\160\072\050\057\057
\143\162\15\40\056\170\162\14\1\155\160\163\145\143\165\162\151\164
\171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\020
\006\011\053\006\001\004\001\202\067\025\001\004\003\002\001\001
\060\015\006\011\052\206\110\10\206\367\015\001\001\005\000\000\003
\202\001\001\000\221\025\07\003\001\033\147\373\112\034\371\012
\140\133\241\132\115\227\142\371\144\123\327\202\144\116\220
\056\030\111\033\053\123\334\374\250\170\147\065\361\035\360\021
\275\267\110\034\020\366\015\133\077\322\311\266\252\125\244\110
\272\002\333\336\131\056\025\133\073\235\026\175\107\327\067\352
\137\115\166\022\066\273\037\327\241\201\004\106\040\243\054\155
\251\123\600\11\176\077\051\136\000\022\333\375\311\122\163\211\121
\144\236\347\053\344\034\221\054\322\271\116\175\316\157\061\231
\323\346\276\320\036\220\360\011\024\171\134\043\253\115\322\332
\041\037\115\231\171\235\341\137\047\237\020\203\034\210\015\260
\212\144\101\061\270\016\154\220\044\244\233\134\161\217\227\273
\176\034\033\333\152\200\017\041\127\345\133\344\267\100\364\262
\213\251\261\134\357\232\032\320\075\151\231\356\250\050\243\334
\074\263\360\026\202\123\417\174\100\346\353\347\103\175\242\330
\072\265\251\125\362\064\231\130\342\204\304\063\375\011\204\020
\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311
\264\003\045\274
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 "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 (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
# 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

# Certificate Authority
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "Go Daddy Class 2 CA"
# Certificate Type CK_Certificate_Type CKC_X_509
# Subject MultiLine OCTAL

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Open Source Used In Crosswork Optimization Engine 4.0.0 9358
\033\142\305\037\157\137\032\102\276\002\121\145\250\256\043\030\n\152\374\170\003\251\115\177\200\030\373\253\132\374\241\100\024\n\312\031\026\376\263\231\030\357\136\163\015\356\167\275\232\366\171\n\230\274\261\007\147\242\025\015\335\240\130\036\014\173\012\076\n\142\205\137\272\101\007\123\130\172\011\176\070\164\305\370\377\n\265\112\202\17\041\64\352\227\033\257\002\001\003\243\201\300\n\060\201\125\060\035\006\003\125\035\016\004\026\004\024\322\304\n\260\322\221\324\114\021\161\263\141\331\075\241\376\335\250\152\n\324\434\060\201\125\060\035\123\035\043\004\021\025\060\012\02\n\200\024\322\304\260\322\221\324\114\021\161\263\141\331\075\241\n\376\335\250\152\324\343\242\147\244\145\060\143\061\013\030\011\n\006\003\125\004\006\023\002\125\123\016\104\016\003\037\006\003\125\n\004\012\023\030\124\150\145\040\010\157\040\104\141\144\171\171\n\040\010\162\157\165\160\054\040\111\156\143\056\061\061\060\057\n\006\003\125\004\013\023\050\107\157\040\014\141\144\144\171\040\n\103\154\141\163\163\040\062\004\010\133\145\162\164\151\146\151\143\n\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202\n\001\000\060\140\031\023\032\015\201\205\060\000\030\010\137\77\n\060\015\014\011\052\206\110\206\067\015\001\000\050\050\000\003\n\02\000\010\000\062\011\336\326\23\12\076\22\13\24\32\02\014\007\n\12\16\16\24\066\036\060\024\13\24\20\036\037\010\246\075\012\n\03\137\120\7\000\02\11\156\151\134\42\26\027\060\377\104\121\143\162\n\070\035\66\140\04\012\43\352\244\050\244\061\366\172\304\124\327\n\366\345\061\130\030\032\243\141\61\42\332\224\105\163\265\277\105\n\311\044\65\325\202\002\255\043\171\151\215\270\266\115\153\161\n\114\312\063\043\350\034\210\252\235\213\101\156\026\31\104\034\n\21\12\36\31\073\332\160\367\176\231\046\040\024\124\045\253\156\n\163\205\346\233\041\235\012\134\202\016\250\370\030\02\014\372\020\n\036\154\226\357\207\015\304\017\141\12\132\255\356\203\053\225\370\n\12\16\22\041\62\071\133\50\035\325\203\355\203\131\227\156\010\274\n\353\110\046\260\163\053\344\322\336\114\376\046\161\134\214\102\n\164\112\377\127\032\207\017\165\110\056\317\121\151\027\240\002\n\022\141\225\325\321\100\262\020\114\356\304\254\020\103\246\245\n\236\012\325\228\142\232\015\171\170\023\030\062\014\344\040\032\327\n\105\346\015\237\050\234\261\127\105\212\127\255\067\017\257\035\n\177\333\275\237\n
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\160002
\217\040\356\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END
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\010\141\144\144\144\171\040\107\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\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_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 "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
\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\010\141\144\144\144\171\040\107\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\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

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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)
# 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_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\343\067\016\265\212\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\123\276\164\123\306\335\035\106\044
END
CKA_ISSUER多行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\124\145\143\150\156\157\154\147\151\145\163
\054\040\111\115\143\056\061\062\060\060\060\003\120\004\013\023
\051\123\164\141\162\146\151\145\144\140\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
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 "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
\060\077\061\013\060\001\006\003\125\004\006\023\002\124\127\061
\060\060\056\000\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\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
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\001\006\003\125\004\006\023\002\124\127\061
\060\056\000\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\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
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_VALUE MULTILINE_OCTAL
\060\202\005\162\206\020\003\132\240\003\002\001\002\002\020\037
\235\131\132\327\057\302\006\104\245\200\010\151\343\136\366
\015\006\011\052\206\110\206\367\150\010\005\005\000\060\077
\061\013\060\011\060\003\125\004\006\023\002\124\127\061\060\060
\056\000\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\010\145\162\164\151\146
\141\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
\036\027\015\060\062\061\060\065\060\106\063\062\063\063\063\063
\027\015\063\062\061\062\060\065\060\063\063\063\063\063
\077\061\013\060\011\060\003\125\004\006\023\002\124\127\061\060\060
\056\000\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\010\145\162\164\151\146
\141\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
\036\027\015\060\062\061\060\065\060\106\063\062\063\063\063\063
\027\015\063\062\061\062\060\065\060\063\063\063\063\063
\077\061\013\060\011\060\003\125\004\006\023\002\124\127\061\060\060
\056\000\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\157\157\164\040\010\145\162\164\151\146
\141\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
\060\020\002\042\060\015\006\011\052\206\110\206\367\150\010\001
\001\015\005\000\032\020\021\17\000\060\202\021\012\002\020\022\001
\000\023\045\270\035\034\024\242\165\250\173\367\316\133\131\125\311
\321\206\022\010\124\354\234\362\347\106\366\210\363\174\351\245
\337\14\107\066\244\033\001\034\177\066\272\121\225\030\035\321
\014\33\33\044\047\110\053\373\237\056\241\224\347\054\034\223
\321\277\033\001\207\123\231\136\247\365\012\041\166\167\377\251
\267\306\163\224\117\016\367\020\110\067\372\250\131\111\135\152
\201\007\126\263\326\212\371\006\320\036\160\042\115\264\267\101
\062\270\261\136\026\130\032\234\077\160\375\123\335\201\025\330\014
\170\366\330\123\156\241\125\152\204\044\162\124\206\036\032\226
\312\034\016\171\012\326\265\160\142\010\001\056\116\117\016\325
\021\257\251\125\345\232\277\334\134\027\015\046\344\311\127\242
\373\226\371\134\341\077\123\214\154\114\176\233\123\010\013\154
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"

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: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_ISSUER MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103

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

Open Source Used In Crosswork Optimization Engine 4.0.0 9370
## Certificate "DigiCert Global Root CA"

**Issuer:** CN=DigiCert Global Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US

**Serial Number:** 08:3b:e0:56:90:42:46:b1:a1:75:6a:c9:59:91:c7:4a

**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


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**CA_CLASS:** CK_OBJECT_CLASS, CKO_CERTIFICATE

**CA私物:** CK_BBOOL, CK_TRUE

**CAの私物:** CK_BBOOL, CK_FALSE

**CAの可変:** CK_BBOOL, CK_FALSE

**CAのラベル:** UTF8 "DigiCert Global Root CA"

**CA_ID:** UTF8 "0"

**CA_ISSUER_MULTILINE_OCTAL**

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**CA_SERIAL_NUMBER_MULTILINE_OCTAL**

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**CA_VALUE_MULTILINE_OCTAL**
\076\171\124\222\204\62\340\200\110\250\067\357\360\326\171\140
\026\336\254\350\016\315\156\254\104\027\070\057\111\332\341\105
\076\052\271\066\123\317\072\120\006\367\056\350\034\127\111\154
\141\041\030\325\044\255\170\074\054\072\200\153\247\353\257\025
\024\351\133\021\130\171\070\154\342\222\115\154\212\377\144\271\117
\045\127\060\300\033\044\243\341\133\345\133\107\174\265\264\044
\010\000\060\354\055\275\013\277\105\277\120\271\251\363\353\230
\001\102\225\310\210\306\230\064\137\215\012\074\306\351\325\225
\225\155\336
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\234\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\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\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\140\040\006\036\006\036\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\222\012\106\261\124\165\152\311\131\221
\307\112
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US
# Serial Number: 02:ac:5c:26:6a:0b:40:9b:8f:0b:79:1f:ae:46:25:77
# 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"

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 Optimization Engine 4.0.0
\277\032\033\240\075\370\312\136\213\061\213\140\010\211\055\014
\006\134\122\267\304\371\012\123\032\025\137\237\022\276\174\066
\143\070\275\104\244\177\344\046\053\012\304\227\151\015\351\214
\342\300\020\127\270\310\166\022\221\125\362\110\151\033\024\052
\002\133\017\104\324\040\066\133\364\272\160\046\135\220\140\236
\274\113\027\011\057\264\313\036\103\150\311\007\047\301\322\134
\143\070\275\104\244\177\344\046\053\012\304\227\151\015\351\214
\367\352\041\271\150\022\234\074\234\277\236\374\200\134\233\143
\315\354\107\252\045\047\147\240\067\363\000\202\175\124\327\251
\370\351\056\023\243\167\350\037\112
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\121
END

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\203\141\104\151\147\151\033\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\000\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
# 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
\060\077\061\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_ID UTF8 "0"

CKA_ISSUER.MULTILINE_OCTAL
\060\077\061\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
\020\020\104\257\260\200\036\243\047\272\211\060\071\206\056\370\100\153
END

CKA_VALUE.MULTILINE_OCTAL
\060\020\003\112\060\202\002\062\240\003\002\001\002\002\020\104\257\260\200\036\243\047\272\211\060\071\206\056\370\100\153\060\015\006\011\052\206\110\206\367\015\001\100\005\000\060\077\061\044\060\042\006\003\125\004\102\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

END
# 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\

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\044\060\042\020\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\257\260\200\326\243\047\272\211\060\071\206\056\370
\100\153

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\111\061\013\060\001\110\006\003\125\004\006\023\002\103\110\006\061
\025\060\023\006\000\03\125\004\006\023\002\103\110\061
\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\001\110\006\003\125\004\006\023\002\103\110\006\061
\025\060\023\006\000\03\125\004\006\023\002\103\110\061
\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_VALUE MULTILINE_OCTAL
\060\202\005\301\060\020\002\03\251\240\003\002\001\002\002\010\116
\262\000\147\014\003\135\117\060\015\006\011\052\206\110\206\367
\015\001\100\011\050\005\000\060\111\061\013\060\011\006\003\125\004
\006\023\002\103\110\061\025\060\023\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\000\125\004\003\023\032\123\167\151\163\163\123\151\147\156
\104\012\015\141\164\115\116\165\155\040\103\101\040\055\040\107
\060\200\036\027\015\106\006\066\061\006\062\065\060\070\063\066\060
\061\013\027\015\063\060\066\061\006\062\065\060\070\063\066\060
\013\206\011\106\101\13\060\011\110\006\003\125\004\006\023\002\103\110
\061\012\025\060\023\006\000\3\125\004\012\023\014\123\167\151\163\163
\123\151\147\156\040\101\107\061\043\060\041\100\006\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\060\020\020\020\020\024
\060\001\150\060\101\052\206\110\206\367\101\150\100\100\100\005\000\003
\202\002\017\000\060\020\002\012\002\020\002\020\001\000\312\337\242
\002\342\332\370\334\007\026\261\133\140\025\336\226\134\144\037
\307\057\176\131\147\372\104\102\323\166\143\225\256\353\257\162
\040\212\105\107\206\142\170\206\326\040\071\046\364\256\243\375
\043\347\245\234\265\042\041\031\226\067\223\042\300\120\243\202
\173\324\325\004\104\134\313\264\302\237\222\276\044\330\173\147
\042\342\151\137\345\055\170\324\207\331\161\160\063\045\123\264
\207\073\051\220\050\066\232\125\104\060\150\244\203\227\177\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 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 \056\243\073\374\051\135\213\301\113\311\342\212\023\035\261\277
\273\102\035\213\333\116\330\024\136\020\306\061\007\357\161\047
\367\033\071\133\342\023\352\213\263\225\206\136\375\365\332\135
\061\126\340\061\126\224\346\104\111\116\4\305\026\345\367\037\003
\141\050\305\130\313\022\240\102\113\371\153\210\010\215\264\062
\030\063\65\156\237\304\177\000\117\005\225\234\243\027\002\303\263
\123\233\252\040\071\051\053\146\372\235\257\136\263\222\322\265
\246\341\032\371\055\101\151\201\024\264\262\265\355\211\075\316
\373\251\235\065\102\04\261\034\024\163\201\317\052\001\065\232
\061\135\055\217\155\204\337\200\115\127\343\077\305\204\165\332
\211\130\060\060\273\335\217\313\042\010\240\256\252\361\003\154\072
\113\115\011\245\016\162\230\266\153\041\102\116\043\045\024\150
\256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306
\014\217\031\177\103\136\156\364\133\025\057\333\141\135\346\147
\057\077\010\224\371\140\264\230\061\332\164\361\204\223\161\115
\137\373\140\130\321\373\304\301\155\211\242\273\040\037\235\161
\221\133\062\233\023\075\076\175\222\12\065\254\222\242\223\323
\030\032\174\073\035\257\166\005\263\335\147\047\302\176\034\007
\042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031
\132\277\177\353\305\342\032\070\321\134\257\107\222\153\200\265
\060\024\351\121\153\300\253\061\201\037\337\032\146\067\323\223\251
\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

END
# 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
06010500610130600111006003125000400602300211031110061
02506002300600312500040120230141231671511163116311123
15111471156040101107061103706003500600311250004003023
026123167151116311631123115111471156040140715711541144040
1103110100055040107062

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06010500610130600111006003125000400602300211031110061
02506002300600312500040120230141231671511163116311123
15111471156040101107061103706003500600311250004003023
026123167151116311631123115111471156040140715711541144040
1103110100055040107062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00201100002731000341103365113611171260

END
Open Source Used in Crosswork Optimization Engine 4.0.0  9384
# 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
CKA_CLASS CK_OBJECT_CLASS 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"

END

# Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# 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


\042\037\211\033\215\014\041\017\025\211\043\030\065\126\217\001\132\014\150\274
\151\031\171\043\036\262\132\101\042\132\241\237\135\054\350\013
\311\155\251\014\041\170\025\211\140\306\016\262\170\001\132\014\150\274
\151\031\171\043\036\303\020\211\111\163\170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275
\045\270\232\132\027\016\141\220\146\207\356\014\326\115\324\021
\164\013\152\376\101\300\337\243\125\117\376\112\313\256\133
\027\005\310\362\150\043\061\112\230\322\055\152\077\202\271\112
\100\152\367\136\101\164\156\303\021\176\007\254\051\140\221\077
\070\312\127\020\015\275\060\057\307\245\346\101\240\332\256\005
\207\232\240\244\145\154\141\011\014\211\112\272\270\323\271\130\023
\212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353
\233\016\001\043\361\237\273\174\334\334\154\021\227\045\262\236
\126\014\024\322\006\050\214\212\033\365\316\352\007\330\232\152
\036\543\440\12\273\052\114\353\011\140\071\136\131\242\330\056
\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 "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\034\171\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\013
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\131\175\317\311\374\015\300\126\165\226\330\142\023
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\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\011\107\061\041\060\037\006\003\125\004\003\023 \\
\030\023\167\151\163\163\123\151\147\156\040\012\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\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\156\143\056\061\061\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\104\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\130\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\156\143\056\061\061\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\104\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
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
# Not Valid After : Wed Jul 16 23:59:59 2036
# Fingerprint (MD5): 02:26:C3:01:5E:08:30:37:43:A9:D0:7D:C7:F8:BF

CKA_CLASS CK_OBJECT_CLASS 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"
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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\002\046\303\001\136\010\060\067\103\251\320\175\317\067\346\277

CKA_ISSUER_MULTILINE_OCTAL
\060\130\061\013\060\011\100\060\033\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\011\156\143\056\061\061\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\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\126\025\072\143\154\257\332\372
\304\241

END
### 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


**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 "thawte Primary Root CA"

**CA_CERTIFICATE_TYPE** CK_CERTIFICATE_TYPE CKC_X_509

**CA_SUBJECT** MULTILINE_OCTAL

```
\060\201\251\061\013\060\001\11\006\003\12\004\006\023\002\125\123
\061\025\060\002\03\000\003\12\004\01\02\23\014\1\1\1\1\1\167\164
\145\054\040\11\11\156\143\056\016\015\050\046\000\003\12\005\041\13
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\12\145\162\166\151\143\145\163\040\10\14\1\1\166\151\163\151\157
\156\061\070\060\066\006\003\12\005\040\13\023\057\050\143\051\040
\062\060\060\060\040\16\150\141\167\164\145\054\040\11\156\143
\056\040\055\040\10\165\167\162\040\14\1\165\164\150\157\162\151\172
\145\144\040\016\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\03\023\026\164\150\141\167\164\145\040\12\0162\151
\15\142\162\171\040\12\12\157\157\164\040\103\101
```

**END**

**CA_ID** UTF8 "0"

**CA_ISSUER** MULTILINE_OCTAL

```
\060\201\251\060\013\060\001\11\006\003\12\004\006\023\002\125\123
\061\025\060\002\03\000\003\12\004\01\02\23\014\1\1\1\1\1\167\164
\145\054\040\11\11\156\143\056\016\015\050\046\000\003\12\005\041\13
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\12\145\162\166\151\143\145\163\040\10\14\1\1\166\151\163\151\157
\156\061\070\060\066\006\003\12\005\040\13\023\057\050\143\051\040
\062\060\060\060\040\16\150\141\167\164\145\054\040\11\156\143
\056\040\055\040\10\165\167\162\040\14\1\165\164\150\157\162\151\172
\145\144\040\016\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\03\023\026\164\150\141\167\164\145\040\12\0162\151
\15\142\162\171\040\12\12\157\157\164\040\103\101
```

**END**

**CA_SUBJECT** UTF8 "thawte Primary Root CA"
OPEN SOURCE USED IN CROSSWORK OPTIMIZATION ENGINE 4.0.0

# 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_BOOL CK_TRUE
CKA_PRIVATE CK_BOOL CK_FALSE
CKA_MODIFIABLE CK_BOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL


% 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
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

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Open Source Used In Crosswork Optimization Engine 4.0.0 9396
\247\240\170\022\255\142\016\105\160\144\305\347\227\146\055\230\011\176\137\257\326\314\050\145\362\001\125\021\010\322\107\336\371\371\174\222\132\010\151\104\015\331\076\155\156\074\015\156\330\346\006\221\100\030\271\137\030\135\355\333\101\252\340\226\040\311\151\144\025\070\201\311\122\436\242\204\051\013\023\157\216\333\143\350\045\023\333\244\213\011\104\322\101\172\005\015\112\130\117\140\311\176\202\152\013\002\252\045\027\071\126\333\177\347\204\145\052\225\12\275\206\336\136\201\026\203\035\020\314\336\375\250\020\052\155\050\037\150\013\304\345\347\032\046\031\341\364\021\157\020\265\225\374\347\102\005\062\333\316\235\121\136\050\266\236\205\323\133\357\245\175\105\100\162\216\267\016\153\016\006\373\063\065\110\161\270\235\047\213\304\145\137\015\206\166\234\104\172\366\225\134\366\135\062\010\063\244\124\266\030\077\150\134\362\102\112\205\070\124\203\137\321\135\054\362\254\021\326\250\355\143\152\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_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \116\266\325\170\111\123\034\317\137\130\036\255\126\276\075\233\147\104\245\345
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL \313\027\344\061\147\076\342\011\137\160\105\127\223\363\012\372\034
END

CKA_ISSUER_MULTILINE_OCTAL \060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\225\006\003\125\004\012\023\016\126\143\162\151\123\151\147\156\054\040\111\115\143\056\061\037\060\035\006\003\125\004\013\023\026\126\145\162\151\123\151\147\156\040\012\162\165\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003

Open Source Used In Crosswork Optimization Engine 4.0.0 9399
\125\004\013\023\061\050\143\051\040\062\060\060\066\040\126\145
\162\151\123\151\147\157\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\003\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\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\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\332\321\236\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"
#
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\125\004\013\023\061\050\143\051\040\062\060\066\040\126\145
\162\151\123\151\147\157\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\003\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\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\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\125\004\013\023\061\050\143\051\040\062\060\066\040\126\145
\162\151\123\151\147\157\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\003\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\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\065
END
\067\070\025\001\004\003\002\000\001\000\000\006\000\01\052\206\110\206
\367\015\000\001\005\005\000\000\003\202\000\01\000\000\060\355\117\112
\341\130\072\122\162\133\265\246\243\145\030\246\273\121\073\167
\351\235\232\232\237\134\340\105\145\173\015\312\133\342\160\120
\262\224\005\024\256\111\307\215\010\007\222\163\224\176\014\043
\041\375\274\020\177\140\020\132\162\365\230\016\254\354\271\177
\335\172\157\135\323\034\364\377\210\005\151\102\251\005\161\130
\267\254\046\350\056\264\214\152\377\161\134\270\261\337\231\1274
\174\041\112\405\334\141\242\273\127\015\256\236\251\243\031\046
\017\231\056\010\260\357\375\151\131\173\211\032\011\215\343\247\237
\053\311\066\064\173\044\263\170\114\225\027\244\006\046\036\266
\144\122\066\137\140\147\331\325\142\320\242\240\364\147\005\170\051
\143\032\157\004\326\370\306\114\243\232\261\067\264\215\345\050
\113\035\236\054\302\270\150\274\355\002\356\061
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 "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
CKA_CLASS CK_OBJECT_CLASS 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\173\322\226\222\322\13\106\175\104
\331\064\377\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321
END
CKA_ISSUER MULTILINE_OCTAL
\006\011\006\01\03\06\00\01\125\004\006\023\002\125\123\061
\040\060\006\000\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

Open Source Used In Crosswork Optimization Engine 4.0.0 9402
# 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_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

CKA_CLASS_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\060\013\060\011\006\003\013\006\004\006\023\002\125\123\061
\040\060\036\000\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\033\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\010\154\157\142\141\154\040\103\101

END
CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\112\060\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\000\013\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\013\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\010\154\157\142\141\154\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\204\003\274\060\020\002\244\240\000\102\001\000\02\020\000

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\274\060\020\002\244\240\000\102\001\000\02\020\000
# 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
# Not Valid After : Mon Dec 31 19:52:06 2029
CHA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CHA_TOKEN CK_BBOOL CK_TRUE
CHA_PRIVATE CK_BBOOL CK_FALSE
CHA_MODIFIABLE CK_BBOOL CK_FALSE
CHA_LABEL UTF8 "Secure Global CA"
CHA_TOKEN UTF8 "Secure Global CA"
CHA_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
CHA_CERT_MD5_HASH MULTILINE_OCTAL
\137\364\047\015\324\155\133\145\026\111\155\075\332\277\156\336

END
CHA_ISSUER_MULTILINE_OCTAL
\060\112\061\113\060\011\111\060\003\125\004\006\023\002\125 \123\061
\040\100\036\003\125\004\101\230\027\123\145\143\165\162\145
\124\162\165\163\164\104\103\157\162\160\157\162\141\164\151\157
\156\061\031\106\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\110

END
CHA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245

END
CHA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# 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

CKA_CLASS CK_OBJECT_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"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\062\010\061\013\060\011\060\003\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\151\162\061\120\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\031\125\004\012\023\022\103\117\115\17\104\117
\040\010\011\144\114\151\155\151\164\145\144\061\104\060\045\006
\003\125\004\003\023\036\010\117\115\17\104\010\143\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\131\002\356\076\065\002\106
\345\075
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 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: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
CKA_CLASS CK_OBJECT_CLASS 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
# 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

END

# 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

END
Open Source Used In Crosswork Optimization Engine 4.0.0

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END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

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9410
# 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_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\041\144\140\040\345\337\316

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
\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056
END

CKA_ISSUER MULTILINE_OCTAL
\060\142\060\136\060\001\11\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\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\125\310\150\020\114\145
\142\164\151\146\151\143\040\115\141\156\143
\141\164\145\162\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_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\001\11\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\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\013\117\151\170\104\117
\104\010\03\101\040\114\151\155\151\164\145\144\006\105\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
00202003710725725214200016011201140011236233143
231052

CKA_VALUE MULTILINE_OCTAL
00202003710725725214200016011201140011236233143
231052

Open Source Used In Crosswork Optimization Engine 4.0.0 9413
# 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
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\020\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\000\072\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\015\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\037\107\257\252\142\000\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
# 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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL \060\201\212\061\013\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\060\065\061 \042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040 \106\151\165\156\144\141\164\151\115\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\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL \060\201\212\061\013\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\060\065\061 \042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
OPEN SOURCE USED IN CROSSWORK OPTIMIZATION ENGINE 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 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"
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

# 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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
```

END
```
\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\020\12\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\060\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\03\106\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\140\062\060\060\065\061
\042\060\040\040\060\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\050\060\046\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\104\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
\337\232
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\103\175\361\322\050\124
\337\232
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 "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"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\12\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"
```
Open Source Used In Crosswork Optimization Engine 4.0.0 9420

# 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_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\001\100\063\125\004\006\023\002\106\122\061
Open Source Used In Crosswork Optimization Engine 4.0.0 9421

# Certificate "Cybertrust Global Root"

# Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Serial Number:04:00:00:00:00:01:0f: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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT 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\035 \006\003\125\004\003\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_ID UTF8 "0"

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\035 \006\003\125\004\003\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\001\017\205\252\055\110
END

CKA_VALUE 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\035 \006\003\125\004\003\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
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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\002\137\103\345\261\277\370\170\214\254\034\307\312\112\232\306\042
\053\314\064\306

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\162\344\112\207\343\151\100\200\167\352\274\343\364\377\360\341

END

CKA_ISSUER MULTILINE_OCTAL
\060\073\061\030\060\026\060\003\125\004\012\023\017\103\171\142
\145\162\164\162\165\163\164\154\040\111\156\143\061\103\70\003\55
\006\003\125\004\003\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\001\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:e8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:be: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 CK_O 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\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\050\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_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\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\050\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\344\006\322
\274\235
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\260\060\202\003\230\240\003\002\001\002\002\020\025
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060
\015\006\010\052\020\061\10\020\063\70\150\01\001\050\005\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
\104\012\145\154\015\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
\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\027\015\060\064\061\062\062\060\060\062\063\061\062\067\132\027
\015\063\064\061\062\062\060\060\062\063\061\062\067\132\016

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Open Source Used in Crosswork Optimization Engine 4.0.0 9424
\202\001\000\011\263\203\123\131\001\076\225\111\271\361\201
\273\271\166\040\043\265\047\140\164\324\152\231\164\136\215\154\000
\123\331\237\362\246\261\104\044\007\104\151\052\230\266\245\216\170\022
\350\017\331\130\003\002\23\052\136\171\233\237\012\052\147\246\045
\077\006\151\112\166\163\303\212\146\110\037\330\120\101\127\164\006\312
\23\34\352\050\035\070\147\046\053\036\312\235\265\077\145\223\370\066
\135\216\215\215\100\040\20\070\031\135\235\070\047\030\075\264\071\017
\045\173\150\201\206\125\234\014\131\175\132\075\101\224\045\122
\10\034\010\207\054\025\060\103\312\27\012\226\252\227
\36\41\237\203\205\272\161\301\331\154\201\021\166\012\012\260\277
\20\02\227\367\352\075\37\32\372\354\055\215\050\224\073\126\335\322
\121\056\256\030\275\010\025\214\167\122\064\226\326\233\254\323
\035\216\141\107\065\173\233\256\071\151\013\142\140\100\040\066
\217\257\373\060\356\055\010\112\035\270\277\233\134\370\352\245
\033\240\163\246\033\303\070\156\340\063\004\137\150\252\047\207\355
\331\130\122\023\34\355\279\343\152\065\257\143\337\253\030\331\272
\346\351\112\352\210\212\017\141\223\036\342\055\031\134\206\022
\065\222\135\161\266\007\275\013\200\021\17\010\22\012\111\130\056\115
\335\205\342\322\012\122\012\027\232\374\032\260\120\000\234\5001
\243\143\067\041\114\104\304\233\121\213\021\016\163\234\006\217
\124\056\247\050\013\6\104\071\207\126\655\067\275\205\104\224\341
\014\113\054\234\303\022\205\064\141\133\017\270\233\112\103\122
\376\604\072\175\270\351\053\334\166\251\131\006\037\002\241\161\200
\306\036\066\110\164\042\101\134\207\202\350\030\161\213\101\121
\104\347\176\110\033\250\270\150\023\335\124\175\430\107\355\263
\032\235\142\256\015\202\352\224\236\335\110\209\033\255\335\342
\115\343\066\112\259\303\75\435\362\260\376\222\036\026\012\032\2374
\333\166\337\004\266\331\112\276\035\264\154\144\220\177\364\344\304
\133\327\007\265\110\021\163\335\244\032\157\174\210\124\305\026\156
\341\172\150\056\370\072\277\015\244\074\211\073\170\247\116\143
\203\030\041\101\147\215\362\200\111\320\133\375\261\315\017\203
\204\324\076\040\205\367\112\075\053\234\375\052\012\011\153\352
\201\137\002\1234
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
Open Source Used In Crosswork Optimization Engine 4.0.0  9427

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\216\176\133\202\100\244\364\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\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\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\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

# Certificate "certSIGN ROOT CA"

Open Source Used In Crosswork Optimization Engine 4.0.0  9427
# 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
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

# 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\375
END
# Certificate "thawte Primary Root CA - G2"

# Issuer: CN=thawte Primary Root CA - G2,O="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc." C=US
# Subject: CN=thawte Primary Root CA - G2,O="(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 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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\061\026\026\060\060\060\060\063\125\000\040\023\002\125\123
\061\012\026\060\060\060\060\063\125\000\040\023\002\125\123
\165\164\40\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\055\010\040\062\060\060\060\070\040\107\145\157\124
\162\165\163\164\40\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\40\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\114\162\171\100\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\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\060\060\060\063\125\000\040\023\002\125\123
\165\164\40\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\055\010\040\062\060\060\060\070\040\107\145\157\124
\162\165\163\164\40\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\40\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\114\162\171\100\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_CERT_MD5_HASH MULTILINE_OCTAL
\265\350\064\066\311\020\014\130\110\160\155\056\203\324\270\005
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
\236\342\261\074\321\023\232\255\247\206\011\163\207\321\347\232\343\172
\245\252\156\373\272\263\160\300\147\210\224\065\324\243\322\261
\375\255\302\357\061\372\250\271\136\333\373\010\306\221\321\373\051
\225\243\102\060\100\060\017\170\006\003\125\035\023\001\001\377\004
\005\060\003\001\001\377\060\016\060\003\125\035\017\001\001\377
\004\004\003\020\001\006\060\035\006\003\125\035\016\004\026\004
\024\232\330\000\060\000\034\7\153\177\205\030\035\6\213\266\316\212
\014\370\021\341\273\060\012\060\010\052\206\110\136\170\050\004\003
\003\030\151\000\060\146\020\061\000\035\370\340\127\107\133\247
\346\012\303\275\365\200\212\227\065\015\033\211\074\124\206\167
\050\312\241\364\171\133\265\346\070\260\360\145\160\214\177\002
\124\032\277\377\330\241\076\313\170\026\100\003\040\215\223\374
\334\123\322\334\235\017\026\037\025\063\043\123\122\343\132\061
\135\235\312\256\275\023\051\104\015\047\133\250\347\150\234\022
\367\130\077\056\162\002\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

END
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

# CA Certificate SHA1 HASH MULTILINE OCTAL
\252\333\274\042\043\217\304\001\124\047\273\070\335\364\035\333
\010\236\360\022

END

CKA_CERT_MD5_HASH MULTILINE OCTAL
\164\235\352\140\044\304\375\042\123\076\314\072\162\331\051\117

END

CKA_ISSUER_MULTILINE OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\215\123
\061\025\060\023\006\003\125\004\012\023\014\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
# Certificate "thawte Primary Root CA - G3"

# Issuer: CN=thawte Primary Root CA - G3, OU="(c) 2008 thawte, Inc. - For authorized use only", O=Certification Services Division, C=US
# Subject: CN=thawte Primary Root CA - G3, OU="(c) 2008 thawte, Inc. - For authorized use only", O=Certification Services Division, C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After: Tue Dec 01 23:59:59 2037

# Certificate Type CK_OBJECT_CLASS CKO_CERTIFICATE

# Token CK_BBOOL CK_TRUE

# Private CK_BBOOL CK_FALSE

# Modifiable CK_BBOOL CK_FALSE

# Label UTF8 "thawte Primary Root CA - G3"

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL
Open Source Used in Crosswork Optimization Engine 4.0.0 9437

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\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\104\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\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\016\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\161\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\013\010\040\055\040\107
\063

END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\052\060\202\003\022\240\003\002\001\002\002\140\001\227\267\106\247\352\264\264\232\326\113\057\367\220\373
\070\060\066\006\003\125\004\013\023\057\050\143\051\040\062\060\060
\070\070\040\164\150\141\167\164\145\054\040\111\156\143\056\040
\055\040\081\157\162\040\141\165\164\150\157\162\151\172\145\144
\040\165\161\163\145\040\157\156\154\171\061\044\060\042\006\003\125
\054\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\063

060202012560610130600110060003\1250040006023002\1251123
0610250600230060003\12500401202301416415011411671164
14505404011115614305606105060046006003\125004013
023037103145162164151\1461511431411641511157156040
123145162166151\14314516304010415116611561151157
15690610700606060003\125004013023005705001430051040
0620060060070040164150114116716414505404001111156143
0560400550401601571620401411651641501571621511172
145144040165163145040157156154171061044060042006
0031250040032030331641501141167164145040120162151
155141162171040122157157164040103101040055040107
063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\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\104\151\166\151\163\151\157
\060\061\070\060\066\006\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\016\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\161\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\120162151
155141162171040122157157164040103101040055040107
063

END

CKA_VALUE MULTILINE_OCTAL
\201\313\076\274\174\256\253\273\246\047\232\064\243\150\061\161\070
\063\142\344\363\161\146\171\261\251\145\243\245\213\325\217\140
\055\077\102\234\145\253\062\230\004\033\130\054\101\135\234\44\373\374
\141\234\342\163\262\042\225\021\110\303\031\073\040\266\037\127\154
\012\005\130\042\310\066\114\072\174\245\321\137\106\257\210\247
\104\002\231\164\116\031\12\102\131\002\237\003\024\153\012\233\37
\157\037\021\153\020\242\235\133\347\112\275\036\001\162\333\113
\164\350\073\177\177\175\037\004\264\046\233\340\264\132\254\107
\075\215\270\032\267\060\046\212\050\001\061\100\146\330\331\044\275
\366\052\330\354\041\111\114\233\336\172\351\177\125\065\176\226
\153\215\223\223\047\313\222\273\352\254\100\300\237\302\230\200
\317\135\364\132\333\341\161\164\206\246\076\154\013\123\131\275\222
\316\031\006\162\346\014\134\070\151\307\004\326\274\154\316\133
\366\367\150\232\334\334\045\025\110\120\241\315\251\370\230\234\340
\363\325\061\050\014\110\154\147\222\215\071\231\133\302\105\044
\071\002\003\001\000\000\012\243\102\060\100\060\017\006\003\125\035
\023\001\000\137\004\005\060\000\301\137\76\060\16\066\003\125
\035\017\001\000\137\76\04\004\003\002\001\106\060\035\006\031\25
\035\016\004\026\004\024\255\154\252\224\140\234\355\344\377\372
\076\012\164\053\143\003\367\266\131\277\060\015\006\011\052\206
\110\206\367\015\001\001\101\130\050\000\303\202\001\000\000\321\000
\330\225\145\254\011\122\221\110\060\171\364\020\345\251\106\146\123
\135\103\333\362\044\221\273\347\104\121\337\306\26\064\012\357
\152\104\121\352\053\007\212\003\172\303\333\077\012\054\122\206
\240\053\103\271\045\220\077\160\251\063\045\155\105\032\005\073
\047\317\252\030\051\102\020\033\377\073\114\030\006\036\064\133\101\210
\277\153\053\145\257\050\357\262\365\303\252\146\316\173\126\356
\267\310\131\147\301\131\123\032\030\207\030\304\303\111\003\361\140
\016\120\315\106\305\363\167\171\367\266\025\340\070\333\307\057
\050\024\001\407\167\046\164\331\045\023\232\061\332\032\006\334
\051\110\122\042\027\45\112\247\273\002\362\266\134\047\000\302\113\364
\006\352\233\344\162\020\343\241\011\130\131\150\000\03\132\233\076\324
\160\153\272\161\246\252\130\256\364\273\351\154\266\357\207\314
\232\323\377\071\134\161\124\131\232\012\247\304\134\114\140\173\005
\167\046\172\277\330\007\122\054\142\367\160\143\331\071\127\415
\034\302\171\133\166\051\257\316\305\054\144\000\136\210\066\156
\061\324\100\032\142\064\066\077\065\100\125\254\143\240

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 - 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
CKA_CLASS CK_OBJECT_CLASS 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 - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\361\213\123\215\033\351\003\266\246\360\126\103\133\027\025\211
\312\363\153\362
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\373\033\135\103\212\224\315\033\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\111\156\143\056\061\050\060\046\006\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\104\151\166\151\163\151\157
\156\061\070\060\066\060\003\125\004\013\023\057\050\143\051\040
\062\020\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\154\171\061\044\060\042\006
\003\125\004\033\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
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\140\001\122\7\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

# 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:60:3c:e3:6b
# 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_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 - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\000\11\006\000\3\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\15\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\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\145\171\061\066\060\064\006\03\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\161\164\171\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\002\256\060\202\002\065\240\003\02\001\002\002\20\074
\126\364\110\012\000\342\376\353\044\073\136\140\076
\303\153
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_VALUE MULTILINE_OCTAL
\060\202\002\256\060\202\002\065\240\003\02\001\002\002\20\074
\126\364\110\012\000\342\376\353\044\073\136\140\076\303\153
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 "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:e:eb:24:3b:5e:60:3e:e:3:6b
# 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\136\330\153\013\006\003\125\004\006\023\002\125\123
\061\126\006\000\024\000\033\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\066\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\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\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\114\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\120\061\101\13\060\011\100\006\003\125\004\006\023\002\125\123
\061\126\006\000\024\000\033\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\066\003\125\004
\013\023\060\050\143\051\040\062\060\060\067\040\107\145\157\124
\162\165\163\164\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\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\114\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\034\237\63\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

# 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
# Trust for 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_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\060\115\060\245\373\207\073\017\247\173\267\015\124
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\216\255\265\001\252\115\201\344\214\035\321\341\024\000\225\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\127\061\013\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\000\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\060\013\037\060\035\006\003\125
\004\013\023\026\012\164\151\151\123\151\147\156\040\012\124\162\165
\163\164\040\116\145\162\151\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\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\070\060\066\000\031\25\000\040\032
\057\126\145\162\165\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\114\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\100\032\304\144\041\263\023\041\003\016\273\344\022\032
\305\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 "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,O="VeriSign, Inc.",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,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
\061\027\060\025\006\003\125\000\004\012\023\016\126\145\162\151\123
\061\027\060\025\006\003\125\000\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\060\013\037\060\035\006\003\125
\004\013\023\026\012\164\151\151\123\151\147\156\040\012\124\162\165
\163\164\040\116\145\162\151\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\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

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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 "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",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,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_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\321\215\367\235\267\317\212\055\144\311\077\154\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\072\122\341\347\375\157\072\343\157\363\157\231\033\371\042\101
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\001\11\006\000\03\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\11\11\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\11\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\067\040\126\145
\162\151\123\151\147\156\054\040\011\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\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
\063\040\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\104\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\057\200\376\043\214\016\042\017\110\147\022\050\221\107
\254\263
END

# 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
\165\025\043\152\157\205\143\060\200\360\325\236\037\051\034\302
\154\260\120\031\135\220\133\073\250\015\060\317\277\175\177\316
\361\235\203\275\011\061\156\040\246\371\141\121\272\041\057\173
\276\025\143\241\134\242\225\070\361\236\271\136\321\111\363\075\205
\270\270\333\276\265\271\051\371\332\067\005\000\111\224\003\204
\104\347\227\103\061\317\165\213\045\321\364\144\365\222\366
\253\005\353\075\351\245\013\066\121\332\314\006\137\066\213\266
\136\061\220\052\333\276\265\121\152\113\060\246\260\142\241\223\361\233
\330\316\304\143\165\077\131\107\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 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

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 "NetLock Arany (Class Gold) Ftanúsítvány"

END

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\333\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\102\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\141\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\036\124\141\156\303\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\141\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

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Open Source Used In Crosswork Optimization Engine 4.0.0  9453

# 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\13\060\011\016\060\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\13\060\011\016\060\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_VALUE MULTILINE_OCTAL
\060\202\003\060\020\002\030\024\003\002\001\002\002\002\003
\350\060\015\006\011\052\206\110\206\367\155\001\001\005\005\000
\060\107\061\103\060\011\006\003\125\004\006\023\002\110\113\061
# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# 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\044\265\057\313\064\156\262
\130\262\212\130

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\100\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\164\040\103\101\040\061

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\130\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\060\033\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\130\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\060\033\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
# 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:c2:7c: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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT UTF8 "Microsec e-Szigno Root CA 2009"
CKA_SERIAL_NUMBER OCTAL 1
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 "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:00:2c: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\134\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\001\100\006\003\125\004\006\023\002\110\125
\061\101\060\017\006\003\125\000\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\151\155\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\061\071\061\037\063\035\006\011\052\206\110\206\367\015
\001\011\000\102\060\200\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\032\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\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\013\010\040
\055\040\122\063\061\023\060\021\060\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\012\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\013\010\040
\055\040\122\063\061\023\060\021\060\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\012\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\001\041\130\123\010\242
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\137\060\022\002\107\240\003\002\001\002\002\013\004
\000\000\000\000\001\014\130\123\010\242\060\015\006\011\052\206
\110\020\036\077\015\001\000\013\005\000\060\014\006\014\006\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\012\122\157\157\164\040\013\010\014\005\050\040\122\063\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\066\012\036\02\114\060\036\006\003\125
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_VALUE_MULTIPLE_OCTAL
\060\020\031\137\060\022\002\107\240\003\002\001\002\002\013\004
\000\000\000\000\001\014\130\123\010\242\060\015\006\011\052\206
\110\020\036\077\015\001\000\013\005\000\060\014\006\014\006\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\012\122\157\157\164\040\013\010\014\005\050\040\122\063\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\066\012\036\02\114\060\036\006\003\125
\002\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_VALUE_MULTIPLE_OCTAL
\060\020\031\137\060\022\002\107\240\003\002\001\002\002\013\004
\000\000\000\000\001\014\130\123\010\242\060\015\006\011\052\206
\110\020\036\077\015\001\000\013\005\000\060\014\006\014\006\036\006
\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156
\040\012\122\157\157\164\040\013\010\014\005\050\040\122\063\061\023\060
\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151
\147\156\066\012\036\02\114\060\036\006\003\125
\002\013\004\000\000\000\000\001\041\130\123\010\242
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 "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\035\272\032\033\076\260\050
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\000\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\063\061\023\060\021\006\033\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\013\004\000\000\000\000\000\000\001\041\130\123\010\242
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 "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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\121\061\013\060\011\006\000\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\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
# 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_ISSUER OCTET_STRING
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH OCTET_STRING
CKA_CERT_MD5_HASH OCTET_STRING

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
\006\070\061\013\060\067\061\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\105
\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_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\006\070\061\013\060\067\061\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\105
\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
\346\175

END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\361\060\020\003\331\124\000\003\002\001\002\002\020\000
\260\026\132\026\110\137\277\341\313\365\213\327\031\346\175\060
\015\006\011\152\026\110\206\367\015\001\001\013\005\000\006\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\105\040\123
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 "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
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\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\140\013\111\132\105\116\120\105
\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
\346\175
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 CKO_CERTIFICATE
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
\136\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
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\006\010\101\006\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\164\040\167\167\167\167\165\164\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\157\141\144\144
\162\145\163\163\030\161\022\060\020\006\003\125\004\005\230\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155

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Open Source Used In Crosswork Optimization Engine 4.0.0  9475
# 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 UTF8 "Global Chambersign Root - 2008"
CKA_SUBJECT_MULTILINE_OCTAL
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\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\040\055\040\062\060\060
\070
END

Open Source Used In Crosswork Optimization Engine 4.0.0  9476
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\304\011\146\040\141\164\040\167\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\105\063\143\157\155\057\141\144\144
\162\145\163\163\015\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\040\036\026\070\067\061\010\033\060\031\006\003\125
\004\102\023\020\011\030\040\103\141\155\145\162\146\151\162\155
\141\140\123\056\010\056\061\047\060\045\006\031\125\004\003\023
\036\107\145\145\142\141\154\040\103\150\014\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
0002011\0003\11\13\15\32\33\35\32\25\175\043\316
END
CKA_VALUE MULTILINE_OCTAL
01602020\007\111\060\202005\06124\000\03\002\001\002\002\002\002
036\015\015\142\141\154\040\102\150\141\155\142\145\162\163
151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
061\062\063\0601\0607\0606\006\0606\0706\1006\0606\0606
062\063\060\16060\012\0606\012\0606\012\0606\012\0606
040\000\125\004\005\023\011\101\070\062\067\064\063\060\070\067
061\010\033\060\031\006\003\125\004\004\023\011\101\070\062
064\063\060\070\060\070\060\070\060\070\060
061\062\063\0601\0607\0606\006\0606\0706\1006\0606\0606
062\063\060\16060\012\0606\012\0606\012\0606\012\0606
040\000\125\004\005\023\011\101\070\062\067\064\063\060\070\067
061\010\033\060\031\006\003\125\004\004\023\011\101\070\062
064\063\060\070\060\070\060\070\060\070\060
END

# 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: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_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\001\110\006\003\125\004\006\023\002\105\125
\061\103\060\010\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\122\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\010\103\034\103\141\155\145\162\146\151\162\155
\141\140\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\135\323\351\325\175\043\316
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 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
\157\155\054\040\111\156\143\056\061\060\060\057\006\003\125\004
\003\023\050\017\157\040\014\141\144\141\171\040\122\157\157\164
\040\103\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\060\202\000\104\2060
\015\006\011\052\202\061\110\206\367\015\001\001\001\005\000\003\202
\001\017\000\060\02\001\012\002\020\001\000\027\161\142\010
\361\137\22\131\064\367\033\311\030\243\367\200\111\113\035\104\203
\023\246\305\050\040\103\001\073\204\363\136\205\025\112\237\047\352\366
\204\030\112\240\264\333\160\203\030\076\202\026\105\076\007\116
\356\364\372\117\057\13\060\042\347\253\031\126\153\342\200\007
\374\363\026\165\200\07\112\173\345\371\065\266\164\116\251\215
\020\202\344\266\077\251\100\03\023\372\242\276\212\025\152\177\336
\013\303\026\030\102\240\055\312\352\303\250\000\042\224\073\106\174\062
\015\036\300\001\146\042\310\215\151\155\066\214\021\030\267\323\262
\034\140\264\070\372\002\214\316\323\335\106\007\336\012\076\353
\135\174\310\174\373\260\053\123\244\222\142\151\121\045\005\141
\032\014\202\124\054\251\021\232\016\051
\305\034\251\153\115\036\026\263\236\060\12\071\136\361\120\0200
\373\113\135\314\062\235\420\514\210\034\506\002\126\047\001\1221
\264\073\160\052\077\115\261\350\234\201\000\175\237\323\427\313\333
\123\155\140\235\277\05\437\110\253\270\137\106\374\316\304\033
\003\074\011\353\111\061\134\151\106\263\340\107\020\003\001\000
\001\243\102\060\100\060\017\066\003\125\035\023\001\000\037\7004
\005\060\003\001\001\037\700\160\060\003\125\035\017\001\000\1377
\004\004\003\002\000\106\060\035\060\031\025\016\004\026\004
\204\027\232\205\007\020\147\050\266\357\366\275\005\101\156\040
\301\122\432\302\173\336\060\015\060\110\52\206\110\206\367\015\001
\001\013\005\000\003\202\020\011\000\023\133\135\171\325\371\227
\131\147\003\014\136\117\060\017\066\016\015\55\241\040\216\117\145
\207\264\367\246\234\274\330\035\171\320\033\132\356\317\164\214
\163\264\070\102\332\005\173\370\002\165\270\375\245\261\132\275
\366\327\336\023\133\123\020\176\212\106\321\227\372\267\056\053
\021\253\220\260\047\200\371\135\023\325\132\356\106\273\253\344\337
\154\263\205\027\235\057\331\044\117\112\212\065\326\137\004\353
\020\023\353\232\002\055\265\020\364\330\202\030\046\163\100\355
\162\045\240\251\123\375\342\266\253\150\022\231\127\306\217\022\072
\011\244\275\104\375\006\250\067\301\233\344\062\243\355\070\353
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333
\042\220\070\055\172\215\321\124\361\151\134\137\063\312\172\075
\173\012\343\312\177\137\017\134\342\216\325\372\030\166\030\363\316
\054\360\057\114\255\367\261\134\316\175\200\342\112\124\006
\305\177\175\325\010\173\342\034\376\176\270\270\254\136\366\324
\026\262\103\011\104\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
# 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

# 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,
Open Source Used In Crosswork Optimization Engine 4.0.0
# 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
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 "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_CERTIFICATE
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\123\061\13\003\125\004\006\023\002\125\123\061\100\016\006\003\125\004\010\023\007\101\162\151\172\157\156\141\106\123\060\003\125\004\007\023\012\123\143\157\164\161\144\141\154\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145\145\144\140\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060\007\010\006\03\125\004\003\023\012\123\164\141\162\146\151\145\154\144\040\112\145\143\150\140\103\145\162\164\151\146\151\143\141\164\145\040\116\15\164\171\040\055\040\107\062
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\123\061\13\003\125\004\006\023\002\125\123\061\100\016\006\003\125\004\010\023\007\101\162\151\172\157\156\141\106\123\060\003\125\004\007\023\012\123\143\157\164\161\144\141\154\145\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145\145\144\140\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073\060\007\010\006\03\125\004\003\023\012\123\164\141\162\146\151\145\154\144\040\112\145\143\150\140\103\145\162\164\151\146\151\143\141\164\145\040\116\15\164\171\040\055\040\107\062

END
\060\016\006\003\125\035\017\000\001\001\377\004\004\003\002\000\001\000\006
\060\035\006\003\125\035\012\010\024\023\137\000\037\252
\000\132\060\005\030\070\010\024\270\155\112\234\362\021\221\023\060
\015\006\001\105\022\061\110\206\367\015\000\100\010\013\000\000\003\020
\001\010\000\001\113\066\246\204\016\171\151\335\073\031\123\171\47\043\010
\157\016\141\113\175\204\334\137\333\300\066\201\135\330\033\101\055
\237\140\335\307\032\150\331\321\156\206\342\210\043\170\023\336
\103\317\342\074\263\000\4\235\037\051\132\255\277\370\136\301\132\53\01
\275\356\222\157\062\164\362\221\020\57\275\202\122\172\255\052
\267\040\175\115\274\172\125\023\302\025\227\53\275\367\152\225\056
\154\164\237\137\034\4\264\362\305\001\243\205\320\162\076\255\163
\253\013\233\165\014\155\103\267\216\224\254\226\067\265\240\032
\217\025\107\016\343\335\203\335\217\375\357\01\001\167\314\047
\251\142\205\063\362\067\010\103\357\161\131\175\006\336\303\031\035
\210\100\317\175\106\035\377\036\307\341\131\377\043\333\306\372
\215\125\116\251\002\234\107\021\106\076\364\375\275\173\051\046
\273\251\141\240\067\050\266\055\52\366\202\126\144\111\160\247
\322\255\267\051\160\171\352\074\332\143\045\237\375\150\267\060
\354\160\373\165\212\267\155\140\147\262\036\310\271\135\133\0250
\157\002\213\147\015\115\046\127\161\133\204\037\301\112\120\015
\261\050\272
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTERCK_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_CERT_SHA1_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\013\060\001\11\010\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\060\123\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\141\063\061\144\061\145\061\145\061\144\144\040\124\145\143\150
\156\141\157\147\151\145\163\054\040\111\156\143\056\061\107
\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\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 "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\013\060\001\11\010\006\003\125\004\006\023\002\125\123\061
\014\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\103\157\155\155
\145\162\143\151\141\154
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\104\060\013\060\001\11\006\003\125\004\006\023\002\125\123\061
\024\162\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
Open Source Used In Crosswork Optimization Engine 4.0.0 9491
# 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
CKA_CLASS CK_OBJECT_CLASS 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
\1371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\3072\262\170\267
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\261
END
CKAIssuer ISSUE_MULTILINE_OCTAL
\060\014\061\013\036\000\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
\124\162\165\163\164\061\037\060\035\106\003\125\004\000\03\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\126\174
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "AffirmTrust Networking"
#
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number: 7c:4f:04:39:1e: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 CKOCERTIFICATE
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
06010406010103060001100600311250004006023002125\123061
02406002200600311250004012014013101146146151162155
12416216516316406103706003506000311250004003014026
101146146151162155124162165163164040116145164167
157162153151156147
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06010406010103060001100600311250004006023002125\123061
02406002200600311250004012014013101146146151162155
12416216516316406103706003506000311250004003014026
101146146151162155124162165163164040116145164167
157162153151156147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020101174117004071034324231055
END
CKA_VALUE MULTILINE_OCTAL
060202000311406020202064240000300200100200200110174
\117004071034324231055060015006011052206110206037
0150010010050000500006001040610130600110060003\125004
00602020021251230610240602200600311250004012014013
1011461461511621551241621651631640610370600350606
003112500400314026101146146151162155124162165163
164040116145164167157162153151156147060036027015
06106006006106207106106406007062064132027015063
06006106206306106106406007062064132060104061013
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\101\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
\125\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\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\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155
\214\024\060\261\124\060\261\235\060\150\006\011\052\206\110\206\036
\015\001\001\014\005\000\006\010\061\013\060\011\006\003\125\004
\006\023\002\021\125\230\061\014\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\006
\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\165\163
\164\040\120\162\145\155\151\165\150\060\036\27\015\060\106\060
\061\062\071\061\064\060\106\060\036\060\012\002\015\064\060\060\016
\063\060\061\064\060\063\066\132\060\010\061\013\060\011\006
\003\125\004\006\023\002\021\125\230\061\014\060\022\006\003\125\004
\120\014\013\011\014\146\146\151\162\155\124\162\165\163\164\061\034
\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124
\162\165\163\164\040\120\162\145\155\151\165\150\060\020\002\042
\001\006\000\061\015\025\206\110\206\036\071\015\001\001\000\05\000\000
\020\002\017\000\060\202\002\012\002\020\002\020\010\000\034\042\022\337
\251\137\373\376\101\133\353\135\133\356\133\123\233\343\366\254\341\107\170\232
\274\343\360\117\172\240\063\052\334\215\040\133\256\055\157\347
\223\331\066\160\152\150\317\116\111\243\205\133\147\004\240\020
\004\157\135\050\020\031\227\127\330\110\051\023\266\341\127\221
\115\337\205\141\23\030\232\036\044\242\17\217\360\242\205\013
\313\364\051\177\322\244\130\356\046\115\31\125\250\173\323\331
\372\070\336\104\127\025\345\370\214\310\331\110\342\015\026\047
\035\036\310\203\020\054\267\272\252\125\011\314\003\042\113\055
\321\125\213\346\211\257\146\307\351\377\070\53\351\074\254\332\322
\263\030\341\150\234\211\370\172\000\126\336\364\125\225\154\373
# 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\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
CKA_ISSUER_MULTILINE_OCTAL
\060\101\061\013\060\001\110\006\003\125\004\006\022\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\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
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 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_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\001\110\006\003\125\004\006\023\002\125\123\061
\024\060\002\220\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\104\060\036\006\003\125\004\003\014\1027
\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_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\110\006\003\125\004\006\023\002\125\123\061
\024\060\002\220\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\104\060\036\006\003\125\004\003\014\1027
\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\164\227\015\123\007\172\124

END

CKA_VALUE MULTILINE_OCTAL
\060\202\000\101\137\060\020\000\125\240\003\002\001\002\002\010\164
\227\045\212\307\077\172\124\060\012\006\010\015\206\110\316\075
\004\003\003\060\015\061\103\060\110\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\124\162\165\163\164\061\040\060\036\006\003\125\004
\003\010\227\110\146\146\151\162\155\124\162\165\163\164\040\120
\162\145\155\151\165\155\040\105\103\103\060\036\061\064\062\060\062
\132\027\101\156\064\060\061
\062\063\061\064\062\060\062\064\132\027\101\156\064\060\061
\062\063\061\064\062\060\062\064\132\060\105\061\13\060\011
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 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

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 "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\325\231\134\276\023\253\246\135\352\115
Open Source Used In Crosswork Optimization Engine 4.0.0  9501
\336\007\063\050\312\225\371\124\313\124\206\120\105\251 \371\111\002\003\000\000\001\243\102\060\000\000\017\006\003\0125 \035\023\001\010\377\004\005\060\003\001\100\377\060\035\006\003 \125\035\016\004\026\004\024\010\166\315\13\007\377\044\366\035 \315\055\273\220\274\342\204\067\106\165\367\060\16\006\003\0125 \035\017\001\010\377\004\004\003\002\000\106\006\015\006\011\052 \206\110\203\063\07\060\060\07\002\001\001\000\0246 \250\025\042\316\000\017\052\246\243\377\14\23\10\110\235\213\136\162 \260\170\14\034\333\334\034\257\011\117\043\110\275\052\304\271 \125\004\265\20\243\215\047\336\013\20\143\320\356\336\014\067 \171\101\13\042\262\260\23\101\134\246\160\340\032\320\167\313 \043\323\000\340\154\126\057\341\151\150\153\31\252\277\041\201 \120\331\006\245\250\377\225\067\320\252\236\342\263\365\231\055 \105\204\212\345\102\011\327\164\002\057\367\211\330\231\351\274 \047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061 \130\023\050\164\003\064\377\063\031\046\245\351\151\164\267\076 \227\306\166\350\047\226\243\146\335\341\256\362\101\133\312\230 \126\023\163\161\060\032\322\061\011\272\057\276\055\023\132 \166\157\116\350\116\201\016\077\133\003\042\240\022\276\146\130 \021\112\313\003\034\264\052\050\255\226\260\273\340\071\112 \047\224\332\163\047\235\232\055\006\246\311\354\071\322\253\333\237\232 \013\047\002\065\051\261\100\225\347\317\350\023\125\210\031\106 \326\267\064\036\176\316\071\232\331\070\361\121\367\117\054 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 "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
Certificate "TWCA Root Certification Authority"

Issuer: CN=TWCA Root Certification Authority, O=TAIWAN-CA, C=TW
Serial Number: 1 (0x1)
Not Valid After : Tue Dec 31 15:59:59 2030

Certificate "TWCA Root Certification Authority"
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\173\060\020\002\143\240\003\002\001\002\002\001\000
\060\001\006\001\110\052\061\102\020\367\015\001\001\001\005\005\000\060
\137\061\013\006\003\125\004\006\023\002\124\127\061\022
\060\020\006\003\125\004\012\014\011\124\101\111\127\101\116\055
\103\101\061\120\060\016\006\003\125\004\013\014\007\122\157\157
\164\040\103\101\061\052\060\050\006\003\125\004\003\014\041\124
\127\103\010\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
\060\036\027\015\060\070\060\070\062\070\062\060\043\063\060
\132\207\015\063\060\061\062\063\060\061\065\065\071\065\071\132
\060\137\061\013\060\011\060\003\125\004\006\023\002\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\103\101\061\105\206\060\050\006\003\125\004\003\014\041
\124\127\103\010\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
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
\160\202\001\042\060\015\060\011\052\206\011\020\367\015\001
\001\001\001\005\000\003\120\200\01\170\000\060\020\001\012\002\202\001
\001\000\260\176\162\270\024\003\224\346\247\336\011\070\221\112
\021\100\207\247\174\131\114\402\241\173\265\021\020\335\376\277\325
\130\023\126\342\205\045\364\065\162\017\370\123\320\01\134\1104
\001\130\264\034\030\061\110\026\016\072\056\030\42\166\262\012\157
\017\345\045\120\011\172\052\026\276\272\230\056\020\147\036\276\021
\005\206\005\220\034\113\320\174\170\020\260\020\013\246\271\341\007
\053\165\313\174\237\256\265\321\123\50\036\067\143\247\334\102\242
\035\222\004\033\320\120\311\173\270\076\033\331\126\004\213\057\122
\123\325\121\126\351\130\137\255\251\130\207\060\266\201\367\227
\105\374\031\127\073\053\157\344\107\364\231\105\376\035\361\370
\027\243\210\013\256\037\034\134\217\134\166\045\232\120\370\204\124
\377\104\220\160\043\322\062\206\030\235\006\277\347\373\273\363
\255\175\222\142\002\133\051\023\065\243\223\013\144\140\135
\126\237\026\237\073\004\025\011\151\001\152\371\030\734\335\043\3375
\153\313\345\017\121\030\015\356\012\374\376\017\230\237\060\061
\335\154\122\145\371\123\201\276\042\341\034\130\003\027\222\1033
\211\007\020\004\003\001\100\000\012\243\102\060\010\060\016\006\003\125
\035\017\001\001\137\377\004\004\000\032\001\006\060\017\006\003\125
\035\023\001\001\137\377\004\005\060\003\001\001\137\377\006\035\006\003


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\125\035\016\004\026\004\024\152\070\133\046\215\336\213\132\362
\117\172\124\203\031\030\034\010\065\246\272\060\015\006\011\052
\206\110\020\063\367\015\001\001\005\050\000\003\020\202\001\001\000\074
\325\167\075\332\337\211\127\220\070\014\010\124\152\040\120\222\276
\260\011\075\271\046\144\203\012\057\350\100\030\027\050\047\202
\060\011\123\112\233\377\152\347\246\000\017\72\111\012\232\326\202\1345
\123\36\105\143\362\320\005\346\32\123\6\015\006\311\001\005\053\111\154
\135\346\320\357\332\152\146\236\025\050\205\172\350\202\000\254
\036\247\011\115\1\26\102\323\150\121\030\276\124\32\277\104\101
\272\111\276\040\272\151\134\356\270\167\315\316\154\037\255\203
\226\030\175\016\265\024\071\204\361\050\351\055\243\236\173\036
\172\162\132\203\263\171\157\357\264\374\320\012\245\130\117\106
\337\373\155\171\131\362\204\042\122\256\017\314\373\174\073\347
\152\312\107\141\030\172\370\323\222\004\037\270\040\204\341\066
\124\026\307\100\336\073\212\163\334\337\306\011\114\337\354\332
\377\241\123\102\241\131\136\142\035\042\203\074\227\305\371\031
\142\047\254\145\042\327\323\074\306\345\262\262\123\314\111\136
\127\406\376\173\016\063\220\373\355\322\024\221\037\007\257
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 "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

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

"TWCA Root Certification Authority"
CKA_CERT_MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
\251\006\043\110

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\013\060\001\100\003\125\004\006\023\002\124\127\061
\022\060\020\000\031\125\004\012\014\011\112\101\111\1127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\014\007\122\157
```
OPEN_SOURCE

Used In Crosswork Optimization Engine 4.0.0

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 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\033\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\013\011\061
\040\060\036\006\011\052\206\110\206\136\015\001\101\001\260\212
\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\033\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\013\011\061
\040\060\036\006\011\052\206\110\206\136\015\001\101\001\260\212
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154

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\131\343\346\001\335\123\331\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\021\116\114\061
\022\060\020\006\003\125\004\012\023\011\110\147\151\116\1157
\164\141\162\061\103\206\006\006\030\060\030\006\031\125\004\003\023\021\041\151
\147\151\116\115\157\164\141\162\040\122\157\157\164\040\010\031\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\206\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
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 (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
Open Source Used In Crosswork Optimization Engine 4.0.0  9511

CKA_CLASS CK_OBJECT_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\060\006\003\125\004\012\014\016\104\151\147\151\116\115\164\141\162\040\012\010\113\111
\157\166\145\162\150\145\151\144\040\013\010\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\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\060\006\003\125\004\012\014\016\104\151\147\151\116\115\164\141\162\040\012\010\113\111
\157\166\145\162\150\145\151\144\040\013\010\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_VALUE MULTILINE_OCTAL
\060\202\006\225\060\020\020\041\175\240\003\002\001\002\002\004\017
\377\377\377\377\015\006\011\052\020\110\020\036\015\001\001\013
\005\000\006\013\020\013\060\011\006\003\125\004\006\023\002\116
\114\061\027\060\025\060\003\125\004\012\014\016\104\151\147\151
\116\157\164\141\162\040\012\056\126\056\061\062\060\066\006\003\125\004
\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\010\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END
CKA_CERTIFICATE_TYPE MULTILINE_OCTAL
\002\004\017\377\377\377
END

Open Source Used In Crosswork Optimization Engine 4.0.0  9511
# 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
\112\202\353\116\202\026\072\254\047\014\123\361\255\325\044\260
\153\003\120\301\055\074\042\335\104\064\047\032\165\373\002\003
\001\000\001\243\020\026\060\100\060\035\006\003\125\035\016\004\026
\004\204\012\205\051\167\145\005\230\174\002\013\070\017\227\054
\070\36\123\254\074\317\060\016\060\003\125\035\017\001\001\013\77
\004\004\003\000\020\001\006\060\017\006\003\125\035\023\001\001\013\77
\004\005\060\003\001\001\013\77\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\003\202\000\010\001\000\114\072\243\104\254
\271\110\261\037\223\176\310\013\012\102\237\144\352\034\356\131
\154\010\272\111\137\152\312\112\225\236\172\217\007\305\332\105
\162\202\161\160\072\322\314\157\247\264\241\043\273\266\044\237
\313\027\376\214\246\316\302\322\333\314\215\374\161\374\003\051
\301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334
\242\110\037\031\077\216\223\353\361\372\027\356\315\116\343\004
\022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274
\227\117\150\072\236\351\056\121\032\266\257\127\134\142\150\174
\267\375\243\212\024\240\254\142\276\053\112\070\064\360\152\200\01
\273\323\051\112\067\043\376\000\067\317\043\154\361\116\252\266\164
\106\022\154\221\135\064\043\325\354\232\221\134\104\276\220\061\162
\325\111\100\023\660\002\345\364\037\353\174\331\226\125\251\377\354
\212\371\231\071\377\065\132\002\252\004\313\212\133\207\161\051
\221\275\244\264\172\015\257\232\365\127\043\000\007\041\027\077
\112\071\321\005\111\13\247\266\067\201\124\135\214\252\063\136
\201\050\174\247\175\104\353\000\256\215\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 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\026\317\151\170\264\316\354\031\031\303\163
\064\271\307\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103

Open Source Used In Crosswork Optimization Engine 4.0.0 9516
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\135\060\011\100\006\003\125\004\006\023\002\112\120\061
\045\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\114\124\104\056\061\104\070\064\045\006\003\125\004\013\023
\036\123\145\131\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

# 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\201\363\061\013\060\011\100\006\003\125\004\006\023\002\105\123
\061\073\060\071\006\003\125\004\012\023\036\062\101\147\145\156\143
\151\141\040\103\141\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\11\105\106\050\060
\046\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\141\143\151\157\061\065\060\063\060\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\043\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


```
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 "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

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 "EC-ACC"
```

```
END
```
# 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"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0602013630610130600011006000312500040060230021050123
06107306000710060003125000401202300621011147114511561143
1511141040110314116411411541141156114114014411450401103
1451142116411411461151114311411431151115704005011161111106
040112010506000700600061061067066005511105110610509060
04600600031250004013023037112314516216611451151163040
120165142154151114311630401441145040110314511421641151
146115114311411511157061106500006300600312500040113
0230541261451471451651040150116401641601163072057057
16711671670561431141164143114511621164056115611451164057
16611511621411621621451540400501431051060063061065
06000600060312500040130230541121451621411621161165
15111410401051156116411411641164116304014411450401103
14511421164115111461141143114311511157040050314111641141
15411411561145113010706010150600031250040003023006
1051103055101103103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202035600530753353324004133600242501422540004363335
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_SIGNED CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# 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"

# 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\201\253\061\131\006\003\125\004\006\023\002\125\123
\061\131\006\007\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\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\140\110\157\154\144\151\156
\147\163\054\040\111\156\143\156\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\140\117\162\147
\141\156\151\172\141\164\151\157\156\140\111\163\163\165\151\156
\147\040\103\010\054\040\114\145\166\145\154\040\062\061\037\060
\035\006\011\052\206\110\206\136\177\015\001\011\001\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\140\156\143\157\155
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

# 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\201\253\061\131\006\003\125\004\006\023\002\125\123
\061\131\006\007\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\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\140\110\157\154\144\151\156
\147\163\054\040\111\156\143\156\061\063\060\061\006\003\125\104
\003\023\052\124\162\165\163\164\167\141\166\145\140\110\157\154\144\151\156
\147\163\054\040\111\156\143\156\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\140\110\157\154\144\151\156
\147\163\054\040\111\156\143\156\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\140\110\157\154\144\151\156
\147\163\054\040\111\156\143\156\061\063\060\061\006\003\125\004
\003\
# 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\212\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\024
END

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\001\100\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\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\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\033\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

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
Open Source Used In Crosswork Optimization Engine 4.0.0
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\105\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\124\162\165\163\164\151
\163\040\114\151\155\151\164\145\144\061\103\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\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\124\162\165\163\164\151
\163\040\114\151\155\151\164\145\144\061\103\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\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\037\255\266\040\131\122\157\157\164\040\103\101
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\147\060\020\002\117\240\003\002\001\002\002\020\131
\037\255\266\040\371\104\123\066\153\136\137\361\214\140\131
\240\131
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 “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_NSS_TRUST
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_CERT_SHA1_HASH MULTILINE_OCTAL
\073\300\070\013\063\303\366\246\014\206\025\042\223\331\337\365
\113\201\300\004
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\311\347\036\153\113\201\300\004
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\030\060\026\000\003\125\004\012\023\017\124\162\165\163\164\151
\163\040\141\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\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\037\255\266\040\371\044\323\066\153\367\307\361\214
\240\131
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 "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_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
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 "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass 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

CKA_CLASS CK_OBJECT_CLASS 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"

CKA_ISSUER MULTILINE_OCTAL
\111\220\136\303\372\047\004\261\171\025\164\231\134\276\255\040
\336\046\140\034\353\126\025\164\231\134\276\255\040
\134\361\132\151\154\062\043\103\356\254\250\035\022\011
\074\135\161\302\276\171\137\232\302\207\150\035\013\375\134\151\314
\134\336\126\121\246\243\077\247\377\141
\334\135\132\130\342\057\343\035\344\251\326\320\012\320\236\277
\327\201\011\361\311\307\046\015\254\230\026\126\240
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

#
# 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\113\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\140\024\012\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\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\063\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\116\061\113\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\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\063\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\106\020\023\003\011\124\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\013\005\000\060
\116\061\101\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\063\062\067\061\040
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
\036\027\015\061\106\060\062\066\060\070\062\070\065\070\132
\027\015\064\060\061\060\062\066\060\070\062\070\065\070\132\060
\116\061\103\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\063\062\067\061\040
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
\241\312\203\031\010\054\155\362\135\167\234\212\024\023\324\066
\034\222\360\345\006\067\334\246\346\220\233\070\217\134\153\033
\106\206\103\102\137\076\001\007\123\124\155\145\175\367\212\163
\241\232\124\132\037\051\103\024\047\302\205\017\265\210\173\032
\073\224\267\035\140\247\265\234\347\051\151\127\132\233\223\172
\103\060\030\033\327\142\310\100\246\252\237\344\344\112\323\221
\125\001\150\200\042\101\156\234\137\104\271\131\140\201\064\354\157
\323\175\332\110\137\353\264\220\274\055\251\034\013\254\034\325
\242\150\040\200\004\326\374\261\127\057\273\112\061\015\112\206
\034\353\342\066\051\046\365\332\330\034\362\165\141\317\176\256
\166\143\112\172\100\145\223\207\370\036\200\214\206\345\206\326
\217\016\374\123\054\140\350\026\141\032\224\076\103\173\315\071
\140\124\152\365\362\211\046\001\115\023\110\242\063\350\311\004
\221\262\021\064\021\076\363\352\320\103\031\037\003\223\220\014\377
\121\075\127\364\101\156\341\313\240\276\353\311\114\333\155\5314
\344\370\066\252\150\235\355\275\135\227\160\104\015\266\016\065
\334\341\104\135\273\020\121\243\313\176\262\353\021\057\243\222
\105\310\114\161\331\317\274\311\123\127\106\057\120\317\275\065
\151\364\075\025\316\006\245\054\017\076\366\201\272\224\227\303
\273\277\145\170\322\206\171\377\111\073\032\203\014\360\336\170
\354\310\362\115\114\032\333\362\203\051\373\301\132\332\355\346
\047\136\350\105\320\235\034\121\250\150\253\104\343\320\213\152
\343\370\073\273\334\115\327\144\336\212\127\364\252\253\132\351
\061\356\006217\163\277\023\142\012\237\307\271\227
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 "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
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
# 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 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 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# 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
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 "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

# 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
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
# 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_CERT_SHA1_HASH MULTILINE_OCTAL
\311\250\271\347\125\200\136\130\343\123\167\247\045\353\257\033
\173\047\314\327
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\136\210\324\175\032\012\176\375\204\056\122\353\001\324\157
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\075\060\073\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\105\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\161\164\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\001\105\202\061\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\200\371\240\163\355\077\000\114\312\211\330\343\161
\346\112
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

# 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 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"

CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\075\060\073\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\105\060\046\006\003\125\004\003\014\037\105\105
\040\103\145\161\164\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060
\026\006\001\105\202\061\110\206\367\015\001\011\001\026\011\160\153
\151\100\163\153\056\145\145
END

Open Source Used In Crosswork Optimization Engine 4.0.0 9545
# 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: 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"

CKA_CLASS CK_OBJECT_CLASS 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"
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\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\151\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\115\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\151\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_VALUE MULTILINE_OCTAL
\060\020\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\363\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\115\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
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
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)
# 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
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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\367\375\121\075\057
END

CKA_ISSUER MULTILINE_OCTAL
\060\015\061\013\060\001\010\060\003\125\004\060\023\002\104\015\061
\025\060\023\006\003\125\004\012\014\014\014\014\010\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\060\003\125\004\003\014
\036\014\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\020\036
END
# 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

END

END

END

END
# 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
CKA_CLASS CK_OBJECT_CLASS 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\023\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\066\101\036\000\111\005\023\125\004\006\023\002\104\050\061
\025\060\023\006\000\112\125\004\101\124\014\104\055\124\162\165\163
\164\040\107\155\142\110\006\105\206\050\000\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\031\154
\141\163\163\040\063\040\103\101\040\106\220\105\126\040\062\060
\060\071
END
# 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_TOKEN UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPECK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECTMULTILINE_OCTAL
\060\122\061\130\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\166\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\010\031\060\027\006\003\125
\004\003\023\020\013\101\040\104\151\163\151\147\040\122\157\157
\164\040\122\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\130\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\166\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\010\031\060\027\006\003\125
\004\003\023\020\013\101\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
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\060\202\020\031\121\240\003\002\001\002\002\011\000
\222\270\210\333\260\212\301\143\060\015\006\011\052\006\110\026
\367\015\001\013\005\000\060\122\061\013\060\011\006\003\125
# 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

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 Optimization Engine 4.0.0  9555

# 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

Open Source Used In Crosswork Optimization Engine 4.0.0  9555

CKA_CLASS CK_OBJECT_CLASS 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\373\330\047\247\027\232\105\124\070\032\103\001\073\003

END

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\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\147\040\141\056\163\056\061\103\106\027\006\003\125
\004\003\023\020\013\010\040\044\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

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:a6:43:7c: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\013\060\011\006\003\125\004\003\014\011\101\101\013\013\013
\126\122\101\111\132\061\066\016\006\003\125\004\013\014

Open Source Used In Crosswork Optimization Engine 4.0.0 9556
# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number: 5e:c3:b7:af: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
\320\240\132\356\005\266\011\122\041\241\175\361\262\051\202\002
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\060\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\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\010\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\033\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_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
\060\121\060\130\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\117\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\010\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\013\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\060\130\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\117\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\010\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\013\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\020\03\05\124\003\002\001\020002002014
\276\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\121\060\130\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\117\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\010\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

Open Source Used In Crosswork Optimization Engine 4.0.0 9561
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,O=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,O=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_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
END
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 CKC_X_509
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\202\005\070\060\202\003\040\240\000\003\002\001\002\002\021\000
\225\061\024\060\022\006\035\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_ID UTF8 "0"
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\002\014\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\070\060\202\003\040\240\000\003\002\001\002\002\021\000
\225\061\024\060\022\006\035\006\003\125\004\012\014\013\124\145\154
\060\015\000\061\105\52\206\110\206\036\015\001\001\005\005\000\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
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_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

END
# 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"
Open Source Used In Crosswork Optimization Engine 4.0.0
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\134\240\015\155\243\142
\217\303\122\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\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\102\107\040\102\151\154\151\130\153\237\151
\155\040\124\145\153\156\157\154\145\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\023\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\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
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE

Open Source Used In Crosswork Optimization Engine 4.0.0 9571
END

# Trust for "T-TeleSec GlobalRoot Class 2"

CKA_CLASS CK_OBJECT_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\061\061\015\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_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\061\061\015\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_VALUE MULTILINE_OCTAL
\060\202\003\167\060\020\02\113\172\40\003\002\001\002\002\101\134
\063\13\142\054\137\263\062\060\015\006\011\052\206\110\206\367
\101\50\101\013\030\000\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\016\106\101\015\060\013\006\003\125\004
\101\12\04\001\101\164\157\163\060\011\006\003\125\004\006
\023\002\104\110\050\060\036\027\015\061\061\060\067\060\067\061\064
\065\070\063\060\013\020\071\015\063\060\061\062\063\061\062\063\065
\071\065\071\132\060\074\061\036\060\034\006\003\125\004\003\014
\025\10\164\157\163\040\124\162\165\163\164\145\144\122\157\157
\164\040\062\060\016\106\101\015\060\013\006\003\125\004\012\104
\001\04\1101\157\163\060\110\006\003\125\004\006\023\002
\104\105\060\020\02\104\020\060\015\006\011\052\206\110\206\367
\100\101\001\010\050\000\003\202\002\001\017\000\060\020\001\12\002\020
\001\001\002\022\050\073\227\157\052\073\056\073\031\172\463\363\051
\065\276\317\030\025\040\076\252\331\137\011\152\040\076\032\107\271\0274
\123\037\362\376\140\076\107\350\172\226\302\044\216\065\364\251
\01\043\742\023\075\155\030\116\142\047\275\352\153\353\347\212\314
\12\076\220\120\317\200\032\025\337\350\264\202\234\024\030\526
\25\101\254\127\333\261\120\366\260\140\144\131\172\151\137\003
\267\157\152\276\312\076\157\164\162\352\252\060\052\163\142\276
\11\12\21\141\310\021\037\60\160\030\052\367\152\040\334\002\025\015
\13\025\152\374\343\202\301\265\305\235\144\011\154\243\131\1230
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
# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: 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

cka_private ck_bool ck_false
cka_modifiable ck_bool ck_false
cka_label utf8 "QuoVadis Root CA 1 G3"
cka_certificate_type ck_certificate_type ckc_x_509
cka_subject multiline_octal
\060\100\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
Open Source Used In Crosswork Optimization Engine 4.0.0 9578
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\372\144\360\342\144\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\006\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_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\060\011\006\000\031\250\004\000\060\023\002\010\011\050\061
\031\060\027\006\000\031\250\004\001\023\020\020\121\165\157\126\141\144
\151\163\040\114\151\155\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\013\010\040\062\040\010\070\063
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\110\061\013\060\060\011\006\000\031\250\004\000\060\023\002\010\011\050\061
\031\060\027\006\000\031\250\004\001\023\020\020\121\165\157\126\141\144
\151\163\040\114\151\155\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\013\010\040\062\040\010\070\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\211\233\065\362\316\270\053\073\133\247\046
\136\060\165\050\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\006\011\110\061\013\060\011\006\000\031\250\004\006\002\023\002\010
\115\061\106\060\027\060\000\031\250\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\060\036\027\015
\061\062\060\061\016\062\061\070\065\071\063\062\132\027\015\064
\062\060\061\061\062\061\070\065\071\063\062\132\027\015\064
\060\061\060\003\125\004\000\023\002\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\036\060\034\006\003\125\004\003\023

Open Source Used In Crosswork Optimization Engine 4.0.0 9581
\040\031\141\244\154\070\374\103\062\341\301\107\377\370\354\361
\021\042\062\226\234\302\336\133\151\226\173\040\004\14\103\101\232
\133\366\111\031\12\036\125\210\067\121\013\170\134\012\036\243
\102\375\072\352\210\1\173\036\362\170\002\204\14\224\237\257\211\207
\210\311\112\20\003\35\352\320\156\076\141\105\066\223\065\016\047
\226\375\146\064\073\141\162\133\361\131\031\210\336\125\210\067\121
\210\311\112\20\003\35\352\320\156\076\141\105\066\223\065\016\047
\172\130\022\260\012\357\205\375\261\270\063\165\152\223\034\022
\346\140\136\157\035\177\311\037\043\331\130\204\14\127\303\162\201\104
\371\11\175\142\125\044\232\122\230\355\121\134\72\116\227\072
\346\057\137\203\11\123\320\054\120\236\125\036\50\203\330\042\137
\152\305\136\227\123\136\206\002\01\110\60\243\130\360\015\000\1325
\16\230\126\111\174\151\173\303\365\066\105\314\14\115\16\114\224
\305\136\256\350\016\136\121\137\367\135\340\355\241\016\033\063
\356\124\030\376\017\276\357\176\204\153\103\343\160\230\033\135
\165\262\015\131\007\205\025\043\071\326\361\133\275\251\046\173\326
\110\307\263\246\042\326\063\067\132\225\107\237\173\272\030\025
\157\377\326\024\144\203\111\322\012\147\074\133\017\065\143\140
\050\004\324\343\262\125\203\135\205\246\335\057\017\134\174\172\121\156
\127\303\205\020\174\365\112\163\347\130\076\300\275\041\102\200\050\77
\374\267\003\11\100\21\133\101\045\346\342\124\070\365\171\207\214
\035\131\23\126\12\176\007\060\307\054\370\370\26\162\215\045
\345\167\122\364\003\034\110\246\120\137\210\040\060\156\56\202
\103\253\075\227\204\347\123\373\041\301\117\170\042\232\206\270
\131\052\366\107\075\301\21\055\350\205\341\236\354\205\010\152
\261\154\04\311\035\354\110\053\073\170\355\146\304\216\171\151
\20\33\177\214
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 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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\133\363\213\213\334\175\125\337\165\070\002\005\000\341
\045\365\131\066
Open Source Used In Crosswork Optimization Engine 4.0.0  9584

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

# 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

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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):
 CKA_CLASS CK_OBJECT_CLASS 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"

 # 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
Open Source Used In Crosswork Optimization Engine 4.0.0 9588

# 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 Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\103\060\011\006\003\125\004\006\232\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\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"

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\103\060\011\006\003\125\004\006\232\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\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_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145
\061\103\060\011\006\003\125\004\006\232\002\125\123\061\205\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\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_VALUE MULTILINE_OCTAL
\060\202\003\226\206\020\202\176\240\003\002\001\002\002\200\013
\223\034\072\326\071\147\352\147\043\277\303\257\232\364\113\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\145
\061\103\060\011\006\003\125\004\006\232\002\125\123\061\205\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\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

Open Source Used In Crosswork Optimization Engine 4.0.0 9588
# 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\221\000\000\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\370\121\217\235
END

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\001\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\147\151\103\145
\162\164\040\111\156\143\061\010\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\156\164\040\101\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

# 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 G3"
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\006\003\125\004\012\023\014\010\141\147\151\103\145
\162\164\040\111\156\143\066\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\011\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
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\006\003\125\004\012\023\014\010\141\147\151\103\145
\162\164\040\111\156\143\066\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\011\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\014\257\315\044\240\154\354\060
\012\006\010\052\060\011\031\075\004\003\003\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\010\141\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
\011\163\165\162\145\144\040\111\104\040
\107\063\060\003\026\015\061\063\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\065\061\062\060\060\060
\060\012\032\006\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\010\141\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004


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\013\023\020\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\144\060\042\060\033\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\061\066\060\020\006\007\052
\206\110\131\160\075\002\010\006\005\053\201\104\000\000\042\000\142\000
\004\031\134\174\125\145\135\152\270\077\130\037\333\152\126\117
\251\104\055\005\025\362\357\013\377\020\164\237\265\142\122\137
\146\176\037\343\334\030\195\171\133\143\306\123\012\235\215\135
\002\233\125\111\133\136\022\132\366\225\052\201\150\070\112\121\111
\306\274\306\003\030\070\007\137\125\332\176\011\156\342\177\136\320
\105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051
\071\124\102\060\001\006\001\170\066\033\125\35\023\001\001\377\004
\005\060\003\010\101\137\70\060\016\060\033\125\035\017\001\001\377
\004\004\003\002\000\126\066\035\006\003\125\35\016\004\26\004
\024\313\320\275\251\134\230\005\121\241\115\067\242\203\171\136
\215\035\052\344\040\060\012\060\061\105\52\026\110\316\75\004\003
\003\003\147\000\006\014\040\020\060\045\244\201\105\002\153\022\113
\165\161\173\310\043\343\033\160\362\165\236\174\211\360\037\221
\162\141\123\136\030\202\222\131\126\271\203\307\202\347\070\35\130
\046\066\175\329\344\064\206\071\002\060\174\066\123\360\060\304
\124\143\072\231\134\266\243\073\233\043\372\036\332\020\222\161
\136\221\023\247\353\244\156\222\314\062\326\365\041\146\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"
# 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\306\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_SERIAL_NUMBER MULTILINE_OCTAL
025060023006003312500040120230141041511471511103145
16216404011111561430610310600270060033125004013023
0201671671670561441514715114314516216404561431157
155061040060036006003125004003023027104151147151
1031451621640401071541571421411540401221157157164
040107062

END

CKA_VALUE MULTILINE_OCTAL
0602020032216060202021166240003002001002000200003
0723613462470212151240273051144261035011372345060
01500601105220601102063670155011001013005000060141
061013060011006003125004006023002125123061025060
02300600312500400120230141041147151143145162164
040111156143061031060270060331250040013023020167
1671671651441511471511521071541571421411540401221157157164040107
06206003602701506110630600706006016106106206006060
0061032070150630700606016106106506106206006060060
13206014106101306001106003125004006023002125123
061025060023006003125004012023014102511471311103
14516216404011111561430610310600270060331250040013
0230200167167167167144151147151143145162164056143
1571550161040060036060003125004003023027104151147151103145
1621640401071541571421411540401221157157164040107
1511031451621640401071541571421411540401221157157
1640401070620600202001042060015006011052206110206
367015001010010050000032000101070000060202001012
0022020010010002730673150643341731533111262150220
2551121653771062720410120102153653011243103373210
3333632563620722112210741172346253006032153317254
05535013601104404272142232176326243250176340124
16504000525412026723414303215406003343320370311261
32703363363753200031312242030672563540371031163335
173054322275056245057344125127055072324231244266
0453512331153000140222140377117041111013063671472220
2534110602342173622723512643511222062153265363127
3501135033135214035253225004225111363065055226343
1111155335167343373111113264254125007251217225263
264043437131115510536936625216225060264375114125
2140471112127024174202235315163222323026112006014
21411032121703601127602722413466041312375203345020
2742042345012304147050366163024024075106166303207
0242111041064115257017105014246111241272273234305
261063120305120500200300100000012431020601000601017
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRIBUT_JUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRIBUT_JUST_AFTER CK_BBOOL CK_FALSE

# 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\004\371\127\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\110\033\052\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\001\100\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\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\010\7\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\001\100\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\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\010\7\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\001\100\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
# 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
# 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\001\000\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\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):
## Fingerprint (SHA1):

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CKA_CLASS CK_OBJECT_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"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\13\060\00\01\00\06\00\03\125\004\006\023\002\125\12\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\11\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\15\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\12\162\16\165\163\164\145\144\040\122\157\157
\164\040\107\064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\005
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142
\061\013\060\011\006\003\125\004\006\023\002\125\12\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\15\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\12\162\16\165\163\164\145\144\040\122\157\157
\164\040\107\064

END

**Open Source Used In Crosswork Optimization Engine 4.0.0  9599**
# 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
# 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

CKA_CLASS CK_OBJECT_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_SUBJEC MULTILINE_OCTAL
\060\201\205\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\151\151\033\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\167\167\167\167\167\060\142\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\151\151\033\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\167\167\167\167\167\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
# Trust for “COMODO RSA Certification Authority”
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4:ca:63:6f:e0:1f:f7:4e:d8:5b:03:86:9d
# 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\315\172\214\264
# 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):

# 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_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\052\172\154\121\367\016\351\015
\332\271\125\5\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
# 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 CKC_X_509
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

END
\243\203\176\055\227\320\141\304\361\231\334\045\221\143\253\177\
\060\243\264\160\342\037\274\106\234\363\277\056\134\123\261\137\n\263\175\062\177\212\066\343\171\171\243\102\060\010\060\035\006\n\003\125\035\016\004\026\020\024\072\341\011\206\324\141\332\321\135\n\125\035\017\001\011\377\004\004\030\002\001\006\060\017\006\003\n\125\035\023\001\011\377\004\005\060\003\000\011\011\377\060\012\006\n\010\052\206\110\075\004\003\030\031\150\000\060\145\050\020\060\n\066\147\242\010\010\343\142\277\000\101\035\116\276\341\143\001\n\317\073\252\102\021\144\240\235\224\071\100\021\171\134\173\035\n\372\144\271\156\026\102\263\127\212\302\011\304\354\344\261\115\n\002\061\000\351\052\141\107\214\122\121\121\133\116\030\160\366\326\n\104\326\156\136\023\172\021\155\130\275\044\311\126\110\352\231\134\n\242\106\201\120\115\072\106\321\251\123\115\111\141\332\321\135\n\127\152\030\n
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 "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\232\052\177\151\073\147\115\345\360\132\035\n\014\225\175\360\n
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301\n
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\120\061\103\060\011\006\003\125\004\006\023\002\125\123\n\061\103\060\021\006\003\125\004\010\023\012\116\145\167\040\112\n\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013\n\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\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\305\132\224\305\322\161\126\336\156\054\006
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
\001\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\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\101\023\012\017\154\157\142\141\154\123\151\147\156\016\023\060
\021\006\003\125\004\003\023\012\017\154\157\142\141\154\123\151
\147\156
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\001\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\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\101\023\012\017\154\157\142\141\154\123\151
\147\156
END
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\202\001\341\060\202\001\207\240\000\03\002\001\002\021\052 \070\244\034\226\012\004\336\102\262\050\245\013\350 \060\202\006\010\052\206\110\316\075\004\003\002\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\103\101\040 \055\040\122\064\061\023\060\021\006\003\125\004\012\023 \154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125 \004\003\023\121\017\154\157\142\141\154\123\151\147\156\060\036 \027\15\061\062\061\06\106\063\060\060\060\060\060\060\132\027 \015\063\070\060\061\061\061\060\063\061\064\060\066\067\132\060\120 \061\044\060\042\020\060\031\125\004\013\023\033\107\154\157\142\141 \154\131\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\012\023 \012\107\154\157\142\141\154\123\151\147\156\061\023\060\021\006 \003\125\004\003\023\012\017\154\157\142\141\154\123\151\147\156 \060\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052 \206\110\316\075\003\001\000\070\003\102\000\000\04\270\306\171\132\217 \154\045\016\123\056\071\100\134\003\244\256\232\234\357\100\070\011 \026\312\143\261\271\206\370\212\127\301\112\316\102\372\163\241 \367\145\102\377\036\01\100\262\156\163\016\377\307\041\345\030 \244\252\331\161\077\275\032\271\136\164\035\243\012\060\010\006 \016\005\003\125\035\017\001\001\377\004\004\003\002\001\006\006 \017\006\003\125\035\023\001\001\377\004\004\056\000\003\001\001\377 \060\035\006\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\110\000\060\105 \002\041\000\334\222\241\240\023\246\170\003\260\034\040\112\227 \220\372\024\127\055\003\354\356\074\332\156\132\250\154\166\274 \242\336\273\002\040\047\250\205\047\065\233\126\306\243\362\107 \322\267\156\033\002\000\027\252\147\246\025\221\336\372\224\354 \173\013\370\237\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 “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
# 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"

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 "GlobalSign ECC Root CA - R4"

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"

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Open Source Used In Crosswork Optimization Engine 4.0.0 9615
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060120060104400604020060030312500401302303331071541157
1421411541231511471560400105103103040122157157164
04010310104005504012210650610230600210060033125004
010120230121071541571142141154123151147156061023060
02100600312500400032030121071541571142141154123151
147156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
060120060104400604020060030312500401302303331071541157
1421411541231511471560400105103103040122157157164
04010310104005504012210650610230600210060033125004
010120230121071541571142141154123151147156061023060
02100600312500400032030121071541571142141154123151
147156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202021140131111134004605627312537101216121611371
112330154
END
CKA_VALUE MULTILINE_OCTAL
060202000203060020200124424000300200100200020121140
131111340046056273125371012167212121611371112330154
06000120060100522066110316075004003003060120061044
060042000603012500401302303331071541571421411541123
15111471560400105103103040122157157164040103101040
0550401221065061023060021006003125004012023012107
154157114214115412315114715601023060021006003125004
0040030230121071541571142141154123151147156060036
0270150610620610610610630600600600600600600600132027
0150630700600610610710606306106406067132060120
01011404060042000603125004013023033107154157142141
15411231511471560400105103103040122157157164040103
1010400550401221065061023060021006003125004012023
1012017154157114214115412315114715601023060021006
00311250040030230121071541571142141154123151147156
0601166060920000600752206110316075002001006005053
2010040000420003142000004010710501226373175135277
35110713210411307237013266632511730362220721110131034
36011220610553000172205037603224711342632661314227347
105324130372322116711551032422300207145064012037172
335135307406312410352351152441571101225070177311036
204313313212361111222072224207014072025112146237235
1311223115227141062061111223410206011000601016600603
12503510170010001377004004040030020010060060101706003
12503502203010011377004005066000300100137706005306
OPEN SOURCE USED IN CROSSWORK OPTIMIZATION ENGINE 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 "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"
CKA_ISSUER MULTILINE_OCTAL
\037\044\306\060\315\244\030\151\377\255\117\212\161\371\012\023\012\107\154\157\
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\03\010\040\055\040\122\065\061\023\060\021\006\003\125\004\003\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
# 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_ID UTF8 "0"
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\036\060\011\006\003\125\004\006\023\000\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\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_VALUE MULTILINE_OCTAL
\060\202\005\164\060\020\003\134\240\003\002\001\002\002\004\000
\230\242\071\160\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\006\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\144\145\162\040\116\145\144\145\162\154\141\156\144\145

Open Source Used In Crosswork Optimization Engine 4.0.0 9618
CKA_CLASS CK_OBJECT_CLASS 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\014\025\123\164\141\141\164\040 \144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061 \053\060\051\006\003\125\004\003\014\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\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_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 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

Open Source Used In Crosswork Optimization Engine 4.0.0 9621
Open Source Used In Crosswork Optimization Engine 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 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_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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER_MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

END

END

END

END

END

END

END

END
# 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"

END

CKA_ID UTF8 "0"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002002000100000000010105043310104265000000
000002

END

CKA_VALUE MULTILINE_OCTAL
0601120601010306010100060313250040006023002125123061
02206002000600312500401202301111144145156124162
1651631640610470600450060031250040003023036111144
145156124162165163164040103157155155145156124143151
141154040122157157164040103101001040061

END

CKA_ISSUER MULTILINE_OCTAL
060112060101030601010006031325004006023002125123061
02206002000600312500401202301111144145156124162
1651631640610470600450060031250040003023036111144
145156124162165163164040103157155155145156124143151
141154040122157157164040103101001040061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00200200120011022000000000010105043310104265000000
000002

END

CKA_VALUE MULTILINE_OCTAL
0602020005114006020200311024000302001002002020012
001102020000000000011050433101042650000000000002060
01500601010520261102063670150010010130050000060112
061103060011006003125004006023002125123061022060
02000600312500401202301111144145156124162165163
164061047060045006003125004003023036111144145156
Open Source Used In Crosswork Optimization Engine 4.0.0

# 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_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 Optimization Engine 4.0.0  9628

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
\337\161\176\252\112\331\116\311\125\204\231\140\055\110\336\137
\274\360\072\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\263\076\167\163\165\356\240\323\343\176\111\143\111\131\273\307
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\103\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\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\165\163\164\040\103\157\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\000\000\010\050\043\310\104\265\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 "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"
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
Open Source Used in Crosswork Optimization Engine 4.0.0
# 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"

END

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

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 "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 BOOL CK_TRUE
CKA_PRIVATE CK BOOL CK_FALSE
CKA_MODIFIABLE CK BOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\020\076\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\024\006\003\125\004\012\023\015\010\156\164\162\165
\163\164\054\040\111\115\143\056\011\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\164\057\154\145\147\141\145\055\164\145\162
\155\163\060\017\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\067\010\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\000\003\125\004\003\023\005\101\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
\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\076\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\024\006\003\125\004\012\023\015\010\156\164\162\165
\163\164\054\040\111\115\143\056\011\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\164\057\154\145\147\141\145\055\164\145\162
\155\163\060\017\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\067\010\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\000\003\125\004\003\023\005\101\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
\062
END
END

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

# 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
Open Source Used In Crosswork Optimization Engine 4.0.0  9635

CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
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\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END
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
\163\164\054\040\111\156\143\056\061\050\060\046\060\003\125\004
\013\023\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\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\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\145\140\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
\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
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 - 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
# 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
\040\015\071\156\154\171\061\063\060\061\006\003\125\004\003\023\052
\105\156\164\162\156\153\164\040\122\157\151\156\164\040\010\145\162
\164\151\146\151\143\141\144\151\157\156\040\101\165\164\150\151\157
\162\151\156\171\040\105\040\010\151\156\060\036\027\015\061\066\062
\061\062\060\010\070\061\065\062\065\063\061\132\027\015\063\067\061
\062\061\070\061\065\061\066\063\066\132\060\020\127\077\061\131\060
\01\06\06\00\03\125\004\006\023\002\125\123\061\026\026\060\024\060\003
\125\004\012\023\015\105\156\164\162\156\164\054\040\111\116
\143\030\06\01\050\060\046\060\003\125\004\013\023\037\123\145\145
\157\154\145\147\141\11\054\055\164\145\161\22\155\163\061\017\100\060
\060\063\012\05\004\013\023\030\06\050\143\030\1\04\062\060\016\062\040
\105\156\164\162\156\163\164\054\040\111\116\143\054\060\040\055\040
\146\151\162\040\141\165\164\165\151\157\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\156\163\164\040\122\157\157\164\040\103
\145\062\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\151\156\162\151\164\171\040\055\040\105\030\061\060\066\060\020
\006\009\052\020\061\031\060\075\002\001\006\005\053\201\004\000\042
\003\142\000\004\020\023\031\132\027\221\155\101\173\342\154\320\335
\125\131\146\020\032\044\364\133\211\115\107\343\270\021\175\361
\362\002\305\237\240\036\133\325\221\13\061\017\117\230\020\155
\007\044\047\241\240\370\325\107\030\141\11\141\175\312\223\047\352
\164\014\357\157\226\011\137\343\354\016\035\066\255\147\167\256
\31\12\35\174\125\104\072\224\143\121\037\365\343\142\322\245\110
\007\076\314\040\243\102\060\100\060\016\060\003\125\035\017\001
\001\13\77\004\004\003\002\001\006\060\017\006\003\125\035\023\001
\001\13\77\004\005\060\003\001\013\77\006\035\006\003\125\035\016
\004\026\004\024\267\143\347\032\335\215\351\010\246\125\203\244
\340\015\120\011\145\021\110\11\060\012\006\010\052\206\110\316
\075\004\030\030\030\036\024\000\026\060\141\111\133\305\102
\017\033\034\256\123\231\027\266\157\034\175\341\277\021\224\321
\003\210\165\344\215\221\244\212\167\106\336\155\141\357\002\365
\373\063\337\134\376\116\377\376\251\346\024\060\133\231\327
\205\067\006\265\173\010\375\353\047\213\112\224\371\341\327\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_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:d0:91:49
# 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
CKA_CLASS CK_OBJECT_CLASS 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
\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\274
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\024\000\003\125\004\012\023\015\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\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\156\057\154\145\147\141\154\055\164\145\162
\155\163\060\071\060\067\006\000\125\004\013\023\060\050\143\051
\040\062\060\066\013\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\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_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
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 "CFCA EV ROOT"
#
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184acc6)
# 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_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

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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![Code fragment]

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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 "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

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL

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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 "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

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\000\001\243\121\060\117\060\013\006\003\125\035\017\004\004\003
\002\001\202\060\060\017\006\003\125\035\023\001\001\137\004\005\060
\003\001\001\137\077\060\035\006\003\125\035\016\000\042\006\040\243\065
\017\100\066\143\136\034\224\354\371\073\046\025\136\121\122\343
\221\123\075\060\020\060\011\053\006\001\004\001\202\067\025\001
\004\003\002\000\000\060\015\006\011\052\206\110\206\367\015\000
\001\013\005\000\003\020\001\000\100\014\373\207\262\231\201
\220\176\235\035\260\260\046\315\210\173\053\062\215\156\270\041
\161\110\227\175\252\067\024\257\076\347\036\232\324\175\366\161
\230\231\004\252\103\164\170\243\334\111\114\076\163\214\115\224
\343\071\161\034\026\060\016\123\170\037\326\242\070\057\002\071
\201\051\074\257\025\230\041\060\376\050\022\000\214\321\341\133
\372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012
\336\101\147\115\146\321\247\377\375\331\300\265\250\243\212\316
\146\365\017\103\315\124\053\127\173\143\106\152\252\056\122\330
\364\355\341\115\255\051\220\170\110\272\341\043\252\243\211\354
\265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\133
\150\361\145\115\316\174\005\337\123\149\251\245\360\261\227\004
\160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332
\126\046\142\234\330\333\211\061\157\034\360\042\302\232\142\034
\065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307
\313\216\075\103\151\123\322\130\320\044\073\337\333\100\221\176
\065\255\201\037\116\161\272\210\023
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):
CKA_CLASS CK_OBJECT_CLASS 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\267\057\230\260\065\046\220\231\121\035
END

CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\112\145\113\145
\171\061\042\060\040\066\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\261\040\122\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\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\040\111\172\142\141\040\122\157\172\154\151\143\137\145\156
\151\157\167\141\040\123\056\101\105\060\103\060\026\006\003\125
\004\033\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\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

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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 "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"
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\211\260\044\261\214\261\007\176\211\236\121\236\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\060\101\360\001\100\060\003\125\004\006\023\002\120\114\061
\050\060\046\000\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

# 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_SERIAL_NUMBER MULTILINE_OCTAL
000202400761213500073354125322602623252673432661370001
35300012

END
CKA_SERIAL_NUMBER

END

CKA_TRUST_SERVER_AUTH
CKA_TRUST
CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION
CKA_TRUST
CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING
CKA_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
# 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_SERIAL_NUMBER MULTILINE_OCTAL
000202400761213500073354125322602623252673432661370001
35300012

END
CKA_SERIAL_NUMBER

END

CKA_TRUST_SERVER_AUTH
CKA_TRUST
CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION
CKA_TRUST
CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING
CKA_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
# 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_SERIAL_NUMBER MULTILINE_OCTAL
000202400761213500073354125322602623252673432661370001
35300012

END
CKA_SERIAL_NUMBER

END

CKA_TRUST_SERVER_AUTH
CKA_TRUST
CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION
CKA_TRUST
CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING
CKA_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
# 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_SERIAL_NUMBER MULTILINE_OCTAL
000202400761213500073354125322602623252673432661370001
35300012

END
CKA_SERIAL_NUMBER

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 "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
CKA_PRIVATE 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\317
\323\334\060\222
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\120\006\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\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\050\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\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202004302B3200112117170450173110620067374252136022
1215351
END

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

#
# 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 CKC_X_509
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
06020124606110130600111006000312500400060023002107122
06110170600115006000312500400072308000210111411501451156
1630611040601020600031250040120230731101451154154
145115611511430401143141144145115511430401411156
1444040122145116314514162143115004011111561631641151
16416156164151157156163040103114516216400560401011165
164115015716215116417110000607600600031250040003
0230671101145115414511561151143040101114311411441145
155111430401411156144404012214511631451411621431150
040111115616316411511641651164115115711561630401221157
157164103101040062060061065
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06020124606110130600111006000312500400060023002107122
06110170600115006000312500400072308000210111411501451156
1630611040601020600031250040120230731101451154154
145115611511430401143141144145115511430401411156

\227\115\367\016\126\135\300\016\126\303\372\003\271\313\371\026
\156\221\043\365\034\050\310\037\406\314\327\034\220\126\247\137
\157\072\004\274\315\170\211\013\216\017\057\243\252\172\242\103
\02\220\051\026\010\000\017\361\106\114\327\252\173\010\030\012\365
\155\047\336\002\217\312\303\265\053\313\123\353\331\004\112\307
\245\314\073\340\004\027\225\206\312\232\044\216\331\216\161\312
\173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253
\360\351\025\166\002\344\340\337\252\040\036\133\141\205\144\100
\251\122\227\155\123\322\113\032\070\152\000\227\145\142\264
\173\157\152\247\365\054\022\355\062\255\266\041\236\276\274
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 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
\060\021\246\061\101\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\104\060\102\026\003\125\004\012\023\073\110\145\154\154
\145\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\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\100\060\076\006\003\125\004\003
\023\067\110\145\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 Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=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
CKA_SUBJECT MULTILINE_OCTAL
\060\201\252\061\013\060\000\11\006\003\125\004\000\023\002\107\122
\061\017\060\015\000\003\125\004\007\023\060\010\11\164\150\151\156
\163\061\104\060\012\026\003\125\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\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\03\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\11\04\060\012\02\060\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\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER 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_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 Optimization Engine 4.0.0 9658
# Certificate "ISRG Root X1"

# Issuer: CN=ISRG Root X1, O=Internet Security Research Group, C=US
# Serial Number: 00:82:10:cb:0d:24:63: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

CKA_CLASS CK_OBJECT_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\060\001\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\125\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\001\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\125\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
# 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\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\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\002\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
# 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
\060\073\061\013\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\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\001\110\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
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\037\124\204\151
\007
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\203\060\202\003\153\240\003\002\001\002\002\017\135
\223\215\060\017\147\066\310\006\035\032\037\124\204\151\007\060\015
\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115
\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\056\036\027\150\060\070
\061\016\060\027\016\016\056\071\016\056\061\320\027\015\063\060\060
\061\016\060\061\060\060\060\060\060\060\132\060\073\061\013\060\011
\006\003\125\004\006\023\002\105\123\061\021\060\017\006\033\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\056\020\042\060\015\006\011\052
\026\110\206\036\071\015\001\005\000\003\020\020\017\000\060
\020\002\012\002\020\002\001\000\027\161\120\172\114\206\156\177
\310\023\155\000\036\175\034\000\022\170\054\014\03\273\020\232
\100\251\032\026\072\210\370\233\126\152\373\346\173\126\123\222
\216\247\045\135\131\021\133\066\056\267\121\027\037\251\010\037
\004\027\044\130\252\067\112\030\037\345\071\324\127\375\327\301
\054\221\001\122\134\024\032\003\300\130\374\167\107\354\217\076
\164\103\272\254\064\215\115\070\166\147\216\260\310\157\060\063
\130\161\134\264\365\153\156\324\001\120\207\023\176\154\112\243
# 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\065\007\262\025\030\225\142\031\342\250\232\133\012\231
\054\114\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
\060\073\061\013\060\001\000\060\003\125\004\006\023\002\010\05\123\061
\021\060\017\006\003\125\004\012\014\010\016\116\115\124\055\122
# 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

CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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 "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_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\131\156\336\026
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\376\255\057\030\306\210\150\060\374\310\346
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\23\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\342\360\170\212\103
\346\226\066\133\312
END

# Trust for "Amazon Root CA 2"
#
\207\026\306\103\350\032\027\046\232\105\160\136\251\013\067\123
\342\027\311\107\245\311\102\023\140\367\120\214\142\256\262\155
\032\025\032\127\170\036\222\205\321\145\220\020\077\154\002\257
\256\022\072\047\226\066\004\327\035\242\200\143\251\123\361\134
\272\264\170\240\262\011\163\111\261\037\164\137\070\366\012\135\232\113
\372\054\224\021\327\105\261\257\116\161\1015
\300\130\016\036\215\151\006\313\123\313\263\376\153\101\151\101\176
\175\114\017\174\162\171\172\131\131\151\136\112\016\254\233\251\1230
\163\171\174\264\364\314\271\270\007\014\262\164\134\270\307\157
\210\241\220\247\364\252\371\177\147\072\236\032\025\142\036\267
\123\276\075\261\051\257\147\241\022\362\213\002\031\123\003\060
\033\027\032\111\366\234\275\227\003\216\243\011\163\035\213\041
\361\264\337\344\034\321\145\002\006\352\134\326\023\263\204
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\264
\352\031\360\215\113\070\023\403\123\033\050\124\270\211\12\0357
\312\165\210\076\036\362\144\044\307\030\257\116\377\107\236\007
\366\065\145\244\323\012\216\377\365\027\144\154\357\250\042\045
\111\223\266\337\000\027\332\130\176\135\356\305\033\260\321\121
\137\041\020\037\371\136\327\200\021\012\047\007\305\361\326\073\232
\134\037\011\410\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

# 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 2014
# 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
\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

Open Source Used In Crosswork Optimization Engine 4.0.0 9671
\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\010\155\141\172\157\n\156\040\122\157\157\164\040\103\101\040\062\nEND

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\153
\133\046\273\212\067\nEND

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_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

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\010\155\141\172\157\n\156\040\122\157\157\164\040\103\101\040\063\nEND

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\010\155\141\172\157\n\156\040\122\157\157\164\040\103\101\040\063\nEND

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\235\164\227\066\146\077\073\013\232\331\350\n\236\166\003\362\112
END
CKA_VALUE MULTILINE_OCTAL
\060\020\001\111\020\001\133\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\135\023\61\166\003
\362\112\060\012\006\010\052\206\110\316\075\004\003\002\060\0071
\061\103\060\001\100\006\003\125\004\006\002\032\012\5\123\61\017\060
\015\006\003\125\004\012\203\006\01\055\141\172\157\156\01\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\063\060\036\027\015\061\065\060
\065\506\066\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\002\032\012\125\123\061\017\060\015\006\003\125\004
\101\023\006\01\155\141\172\157\156\01\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\060\113\016\023\060\007\052\206\110\316\075\002
\001\006\01\052\206\110\316\075\003\001\017\003\016\040\051
\227\247\306\101\177\300\015\233\350\001\033\126\306\362\122\245
\272\055\262\022\330\322\056\327\372\331\130\330\252\155\037\163
\201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243
\102\060\100\060\017\060\003\125\035\023\010\001\137\004\005\060
\003\301\001\137\077\060\016\060\003\125\035\017\010\100\037\004\004
\003\002\001\12\060\003\056\003\125\035\016\004\026\004\024\253
\263\333\327\006\236\067\254\060\020\007\221\160\307\234\304\031
\261\170\300\060\012\060\010\052\206\110\316\075\004\003\002\003
\11\100\060\016\002\041\100\340\205\222\243\027\267\215\371\053
\006\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170
\140\246\103\231\130\5\270\034\002\041\000\234\002\357\361\124\234
\263\226\371\135\060\052\370\266\054\376\072\220\204\026\22\27\214
\143\044\110\034\337\060\175\325\150\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 "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
# 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 CKC_X_509

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

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_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# 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_ISSUER OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\253\256
\034\357\143\276
END
CKA_SERIAL_NUMBER OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

# 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

Open Source Used In Crosswork Optimization Engine 4.0.0 9676
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\241\031\020\257\036\251\044\031\023\036\032\247\015\034\036\031\056\037
\310\016\030\012\010\030\011\006\003\125\031\157\022\002\174\245
\044\030\023\036\032\013\023\026\015\032\016\015\026\015
\132\032\123\077\077\233\157\371\124\272\232\352\245\076\231\255\375
\177\173\231\165\145\356\360\131\050\147\327\220\225\244\032\020
\251\204\301\350\316\316\223\143\302\274\074\352\325\144\037
\055\052\022\071\036\033\132\062\355\107\221\026\016\267\074\070\301
\120\336\217\312\052\220\064\034\356\101\122\234\136\031\056\370
\105\111\231\164\222\126\000\157\343\004\132\261\125\052\253\376
\307\320\226\260\332\341\112\144\006\156\140\115\275\102\116\377
\170\332\044\312\033\264\327\226\071\154\256\361\106\152\247\175
\110\213\040\141\317\144\326\270\227\106\260\116\321\052\126\072
\240\223\275\257\200\044\340\012\176\347\312\325\132\350\205\125
\334\066\052\341\224\150\223\037\146\162\104\017\200\041\062\154
\045\030\043\200\023\012\353
END

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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

END

CKA_ID UTF8 "0"

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):

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 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\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\010\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\012\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\010\003\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\012\162\165\163\164\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\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
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 "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
# 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):
# 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\071\223\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
\100\020\224\061\013\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\003\125\004\013\023\026\123\171\155\141\156\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\062\040\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\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261\137\110
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
# 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

# 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 "Symantec Class 1 Public Primary Certification Authority - G4"

CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\001\100\000\031\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\012\023\024\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\033\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\036\145\164\164\151
\146\114\113\141\164\151\157\156\040\011\165\150\157\162\151
\164\171\040\055\040\107\064

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\001\100\000\031\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\012\023\024\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\033\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\036\145\164\164\151
\146\114\113\141\164\151\157\156\040\011\165\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
# Trust for "Symantec Class 1 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
# Not Valid Before: Wed Oct 05 00:00:00 2011
# 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 "Symantec Class 1 Public Primary Certification Authority - G4"
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\362\343\335\203\023\076\251\035\031\122\177\002\327\051\277
\301\137\346\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\345\200\077\125\377\131\120\244\062\322\025\245\345\252\346
END
CKA_ISSUER MULTILINE_OCTAL
\066\020\122\240\061\013\060\001\11\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
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\015\060\013\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\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\020\204\156\063\245\313\323\210\244\157\051\007\264\047\074
\304\330
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# 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
# 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 - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\024\061\013\060\000\011\006\000\03\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
\145\134\040\012\162\156\163\164\040\116\145\164\167\157\162\153
\061\05\06\01\03\00\06\03\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\160\040\062\040\120\165\142\154
\151\143\040\012\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\064
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\224\061\013\060\001\11\006\000\03\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
\145\134\040\012\162\156\163\164\040\116\145\164\167\157\162\153
\061\05\06\01\03\00\06\03\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\160\040\062\040\120\165\142\154
\151\143\040\012\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\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\027\145\022\100\073\267\126\200\055\200\313\171\125
\246\036
END

CKA_VALUE MULTILINE_OCTAL
Open Source Used In Crosswork Optimization Engine 4.0.0

\060\020\002\250\060\020\002\002\002\005\240\000\032\002\000\001\002\000\020\0064
\027\145\022\100\007\126\200\000\055\202\003\171\125\246\036\060
\012\006\010\052\206\110\031\167\050\044\003\003\060\201\224\061\013
\060\011\006\003\125\004\046\023\002\125\123\061\135\060\033\006
\003\125\004\012\023\024\123\171\155\141\116\145\143\040\010\13
\157\162\160\157\162\141\164\151\157\156\061\037\060\035\006
\125\004\013\023\026\123\171\155\141\156\144\145\143\040\124\162
\165\163\164\040\116\145\167\157\162\153\061\105\060\103\006
\003\125\004\013\023\027\123\171\155\141\156\144\145\143\040\103
\154\114\163\163\040\062\040\102\165\142\154\151\143\140\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\156\121\151\164\171\040\055\040
\107\064\060\036\027\150\061\061\106\106\060\065\060\060\060\160
\060\060\132\027\015\063\070\060\061\010\070\062\063\065\071\065
\071\132\060\021\224\061\013\060\061\010\125\004\006\023\002
\125\123\061\035\060\033\006\033\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\033\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\031\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\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\064\060\166\060\020\006\007\052
\206\110\316\075\002\001\006\005\053\201\100\004\000\042\003\142\000
\004\321\331\111\122\161\114\015\204\112\121\272\174\357\323\314\372
\072\232\265\247\143\023\075\001\134\011\107\372\230\107\311\222
\263\072\327\376\157\23\436\232\072\017\365\016\012\123\030\077
\310\347\022\024\216\132\325\155\230\054\263\161\062\012\353\052
\275\366\327\152\040\013\147\105\234\322\262\277\123\042\146\011
\133\333\021\163\363\160\056\063\130\243\342\270\171\174\135\202\233
\127\524\012\060\010\060\016\000\031\125\035\017\001\000\137\004
\004\003\002\001\006\060\017\006\060\125\035\023\001\137\004
\005\060\060\030\030\011\377\060\035\006\031\125\035\016\000\042\000
\024\075\062\236\072\125\014\220\204\371\124\212\141\150\061\141\124
\057\207\162\236\076\050\061\120\060\100\052\206\110\316\075\040\003
\030\021\015\100\060\146\000\060\062\061\000\310\246\251\125\171\177\265
\311\021\015\020\151\151\141\342\270\047\030\266\230\361\300\177
\220\155\207\032\214\106\027\360\076\117\374\352\260\010\304\172
\113\274\010\057\303\324\247\157\145\002\061\000\326\131\336\206
\131\163\016\132\124\325\306\320\025\016\374\213\224\162\324\216
\000\130\132\137\176\261\113\015\345\120\206\353\236\153\337\377
\051\126\330\107\331\240\226\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):
CKA_CLASS CK_OBJECT_CLASS 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 - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\044\220\056\110\001\260\042\226\100\020\106\264\261\147\054
\251\165\375\053
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\160\325\060\361\332\224\227\324\327\164\337\276\355\150\336\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\001\11\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\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\142\163\164\040\162\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\010\165\164\150\157\162\151
\164\171\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\027\145\022\100\073\267\126\200\055\200\013\171\125
\246\036
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
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td># Serial Number:</td>
<td>1039788 (0xfddac)</td>
</tr>
<tr>
<td># Subject:</td>
<td>CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE</td>
</tr>
<tr>
<td># Not Valid Before:</td>
<td>Fri Sep 20 08:25:51 2013</td>
</tr>
<tr>
<td># Not Valid After:</td>
<td>Wed Sep 20 08:25:51 2028</td>
</tr>
<tr>
<td>CKA_CLASS C K_OBJECT_CLASS CKO_CERTIFICATE</td>
<td></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</td>
<td>&quot;D-TRUST Root CA 3 2013&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE C K_CERTIFICATE_TYPE C KC_X_509</td>
<td></td>
</tr>
<tr>
<td>CKA_SUBJECT MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_VALUE MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ID UTF8</td>
<td>&quot;0&quot;</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_SERIAL_NUMBER_MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_VALUE_MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>

Open Source Used In Crosswork Optimization Engine 4.0.0 9693
# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 10397988 (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_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\134\165\315\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\140\141\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\104
\026\140\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\1063
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
# 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 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\013\060\011\006\003\125\004\006\023\002\124\122
\061\013\060\026\006\003\125\004\007\023\017\010\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\011\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
\060\053\006\003\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\115\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\020\132\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\013\060\026\006\003\125\004\007\023\017\010\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\011\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
\060\053\006\003\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\115\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_SERIAL_NUMBER MULTILINE_OCTAL
# 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
# 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):
# Certificate "GDCA TrustAUTH R5 ROOT"
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\002\010\163\166\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\03\105\122\124\111\106\111\103\101\124\105
\040\010\125\124\110\117\112\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\061\013\060\011\006\003\125\004\006\023\002\010\163\166\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\03\105\122\124\111\106\111\103\101\124\105
\040\010\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
\002\010\175\011\227\376\360\107\352\172
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175
\011\227\376\360\107\352\172\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\142\061\013\060\011\006\003\125\004
\006\023\002\010\163\166\061\106\060\060\006\003\125\004\012\014\051
\107\125\101\116\107\040\04\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\101\137\065\054\114\124\104\056\061\037\060\035\006\003\125
\004\003\014\026\061\107\104\103\101\040\124\162\165\163\164\101\125
\124\110\040\122\065\040\122\117\117\124\060\036\027\015\061\064
\061\016\062\060\060\065\061\063\016\065\132\027\015\064\060\061
\062\063\061\061\065\065\071\065\071\132\060\132\061\013\060\011
\006\003\125\004\060\023\002\010\163\061\062\060\060\006\003\125
\004\010\140\051\107\125\011\116\070\040\104\117\116\107\040\103
\015\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\060\020
\002\042\060\015\006\001\010\052\206\110\063\067\015\001\001\001
\001\000\010\020\002\017\000\060\020\002\012\020\002\001\000\033
\243\026\360\310\164\164\167\233\357\063\015\073\006\176\125\374
\126\514\217\166\206\022\102\175\126\146\076\210\202\355\162\143
\106\162\231\335\064\050\002\121\121\030\031\375\131\124\043\111
\136\153\263\114\260\035\1350\106\135\070\306\242\247\056\021\127
\272\202\025\242\234\217\155\260\231\112\012\362\353\211\160\143
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 "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Serial Number:7d:09:9f: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\071\032\045\033\023\061\116\203\312\351\064\146

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264

CKA_ISSUER MULTILINE_OCTAL

\060\142\061\013\060\001\1\066\003\125\004\006\023\002\103\116\061
\062\060\006\000\003\125\004\012\140\051\107\125\011\116\107\040
# 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\101\201\017\060\015\006\003\125\004\006\023\020\120\101
\061\017\060\015\006\003\125\004\006\012\014\115\116\115
\114\016\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\013\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\163\163\164\161\164
\151\163\040\123\056\040\144\145\040\122\056\114\056\061\104\070\060
\034\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\151\114\151\143\141\164\145\040\101\165\164
\150\157\162\151\116\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\033\157\162\040\122\157\157\164\013\145
\162\164\040\103\101\055\061
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 "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

END

Open Source Used In Crosswork Optimization Engine 4.0.0  9705
# 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
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
\105\133\303\012 END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105 END

CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\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\240\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\103\151\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\136\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\201\244\061\013\060\001\011\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\007\014\013\120\141\156\141
\155\141\040\03\164\171\061\044\060\042\000\033\125\004\012
\014\033\124\162\165\163\164\103\151\162\204\012\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\045\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\003\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\061\037\060\035\006\033\125\004\003\014
\026\121\162\165\163\164\013\157\162\040\122\157\157\164\103\145
\162\164\040\010\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\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\007\014\013\120\141\156\141
\155\141\040\03\164\171\061\044\060\042\000\033\125\004\012
\014\033\124\162\165\163\164\103\151\162\204\012\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\045\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\003\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\061\037\060\035\006\033\125\004\003\014
\026\121\162\165\163\164\013\157\162\040\122\157\157\164\103\145
\162\164\040\010\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_VALUE MULTILINE_OCTAL
\060\201\244\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\007\014\013\120\141\156\141
\155\141\040\03\164\171\061\044\060\042\000\033\125\004\012
\014\033\124\162\165\163\164\103\151\162\204\012\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\045\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\003\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\061\037\060\035\006\033\125\004\003\014
\026\121\162\165\163\164\013\157\162\040\122\157\157\164\103\145
\162\164\040\010\101\055\062
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):
# 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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\143\324\022\312\116\006\064\307
\224\262\034\300
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\003\001\272\105\325\307\101\052\273\067\122\105\144
CKA_ISSUER MULTILINE_OCTAL
\060\020\124\040\061\013\060\001\11\060\003\125\004\006\023\002\120\101
\061\017\060\015\060\003\125\004\010\014\006\120\141\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\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\069\035\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\020\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"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\234\061\013\060\001\11\006\003\12\004\006\023\002\120\010
\061\017\060\015\006\003\12\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\12\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\12\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\12\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\165\11\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\12\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\202\134\061\013\060\001\11\006\003\12\004\006\023\002\120\010
\061\017\060\015\006\003\12\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\12\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\12\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\12\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\165\11\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\12\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\002\024\020\054\137\034\142\320\100
END

CKA_VALUE MULTILINE_OCTAL
\060\202\134\061\013\060\001\11\006\003\12\004\006\023\002\120\010
\061\017\060\015\006\003\12\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\12\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\12\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\12\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\165\11\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\12\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END

Open Source Used In Crosswork Optimization Engine 4.0.0 9711
Open Source Used in Crosswork Optimization Engine 4.0.0  9712
# 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:D1:95:67:6B:63:C0:5B: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\204\35\012\365\100\174\351\346\153\235\330\365\347\154
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\103\060\011\060\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\102\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
# Not Valid After : Tue Feb 12 17:39:39 2041
# 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

# Certificate "SSL.com Root Certification Authority RSA"
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA_CER衬衫IFICATE TYPE CK_CER衬衫IFICATE_T衬衫Ype CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\036\000\11\006\003\125\004\006\023\022\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\105\117\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\161\157\162\141\164\151\157\156\061\061\060\157\006
\003\125\004\000\11\006\003\125\004\006\023\022\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\105\117\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\161\157\162\141\164\151\157\156\061\061\060\157\006
\003\125\004\000\11\006\003\125\004\006\023\022\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\105\117\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\161\157\162\141\164\151\157\156\061\061\060\157\006
\003\125\004\000\11\006\003\125\004\006\023\022\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\105\117\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\161\157\162\141\164\151\157\156\061\061\060\157\006
\003\125\004\000\11\006\003\125\004\006\023\022\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\105\117\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\161\157\162\141\164\151\157\156\061\061\060\157\006
\003\125\004\000\11\006\003\125\004\006\023\022\125\123\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\036\000\11\006\003\125\004\006\023\022\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\105\117\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\161\157\162\141\164\151\157\156\061\061\060\157\006
\003\125\004\000\11\006\003\125\004\006\023\022\125\123\061

END
# 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
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 "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: 75:6e:df:c8:1:68:5b: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 CKC_X_509
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\013\060\011\006\003\125\004\006\023\002\125\123\061
\101\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\125\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\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\013\060\011\006\003\125\004\006\023\002\125\123\061
\101\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\140\050\123\123\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\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\346\337\337\313\301\150\133\250
END
CKA_VALUEMULTILINE_OCTAL
\060\202\002\215\060\202\002\024\240\003\002\001\002\002\010\165
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075
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
CKA_CLASS CK_OBJECT_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\16\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\02\060\016\060\003\125\004\007\014\007\110\157\165\163\164
\157\156\06\10\03\060\026\006\003\125\004\012\014\017\123\114
\040\10\13\157\162\16\157\162\14\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\114\056\143\157\155\040\105
\126\04\012\175\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\17\104\122
\123\10\104\122\062
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\16\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\02\060\016\060\003\125\004\007\014\007\110\157\165\163\164
\157\156\06\10\03\060\026\006\003\125\004\012\014\017\123\114
\040\10\13\157\162\16\157\162\14\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\114\056\143\157\155\040\105
\126\04\012\175\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\17\104\122
\123\10\104\122\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\353\060\202\003\323\240\003\002\001\002\002\010\126
\266\051\315\064\274\170\366\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\02\02\02\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\02\060\016\060\003\125\004\007\014\007\110\157\165\163\164
\157\156\06\10\03\060\026\006\003\125\004\012\014\017\123\114
\040\10\13\157\162\16\157\162\14\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\114\056\143\157\155\040\105
\126\04\012\175\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\17\104\122
\123\10\104\122\062
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
# 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
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\201\202\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\010\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
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
CKA_CLASS CK_OBJECT_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

Open Source Used In Crosswork Optimization Engine 4.0.0 9724
# 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
# Not Valid After : Tue Feb 12 18:15:23 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 EV Root Certification Authority ECC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\136\504\062\024\260\306\305\062\043\003\221
\307\106\102\155

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220

END

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\001\100\06\003\125\004\006\023\002\125\123\061

Open Source Used In Crosswork Optimization Engine 4.0.0  9726
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\140\007\110\157\165\163\164\157
\156\061\030\060\002\060\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\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_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 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_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\006\036\006\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\151\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\12\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\006\036\006\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\151\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\12\107\154\157\142\141\154\123\151\147\156
# 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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\132\021\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\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\03\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\020\063\033\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):

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"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\123\436\026\046\321\226
\037\303\271\061
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043
# 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):

# Certificate "GTS Root R1"

cka_issuer multiline_octal
\060\155\061\013\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\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\061\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\107\103\040\103\101
end

cka_serial_number multiline_octal
\002\020\041\052\126\014\256\332\014\253\053\242\055
\072\352
end

cka_class CK_OBJECT_CLASS CKC_X_509

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
\060\155\061\013\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\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\061\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\107\103\040\103\101
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\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

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 "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 CKC_X_509

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
\060\155\061\013\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\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\061\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\107\103\040\103\101
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_BOOL CK_FALSE
Open Source Used In Crosswork Optimization Engine 4.0.0  9735

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# 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):
# 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 "GTS Root R1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\341\311\120\346\357\042\370\114\126\105\162\213\222\040\140\327
\325\247\243\350
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\032\357\324\322\112\061\013\060\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_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\100\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\107\251\130\113\107\014\015\354\063\320\211\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

# 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
Open Source Used In Crosswork Optimization Engine 4.0.0  9737

# 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 R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601070611011306001100060031125004006023002125\123061
0420600106060031125004012023031107157147154145
04011241621631164040123145162166151143145163040
114114030601024060022006003112500400302301307124
1230401221571157164040122062
END

CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
0601070611011306001100060031125004006023002125\123061
0420600106060031125004012023031107157147154145
04011241621631164040123145162166151143145163040
114114030601024060022006003112500400302301307124
1230401221571157164040122062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202015610725113061322633347040305060232077150122
362157
END

CKA_VALUE MULTILINE_OCTAL
06020200511320602020031022400031002100202020156
10725113061132263347040305060232077150112362157060
015006011052206111020613671515001001104005000060107
0610130600110060031125004006023002125\123061042060
0400060031125004012023031107157147154145
04611651631164040123145162166151143145163040
114114030601024060022006003112500400302301307124
1230401221571157164040122062
06206006006006060606013202701506306060606060260260
060060060060060061320601070610130600110060031125
003006010200202125\1230610420600400060031125004012023
031110751157147145145040124162165163164040123145
162166151143145163040114114030610240600220060
1250040003023013071241230401221571157164040122062
0600202002042060015006011052206110206136715001001
001005000000102020020117000006020020102002002001
0000316336375246373354354024064040400070006132154131
3670316053353673011235125252323315073244223162357
0123721155235366360205\2001332411110122237071305267
# 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

CKA_CLASS CK_OBJECT_CLASS 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
\322\163\226\052\052\136\071\123\163\077\341\307\036\144\077\003
\070\064\374\115

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\104\355\232\016\244\011\073\000\362\256\114\243\306\141\260\213

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\036\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
# 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_ID UTF8 "0"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
060107006101306001100600311250040060230021125123061
042060040006003112500401102303111071157114711541145
04012416216516316404012311451621661511143145163040
11411410306102406002200600311250040030230131071124
1230401122115711571640401220063

CKA_ISSUER MULTILINE_OCTAL
060107006101306001100600311250040060230021125123061
042060040006003112500401102303111071157114711541145
04012416216516316404012311451621661511143145163040
11411410306102406002200600311250040030230131071124
1230401122115711571640401220063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002020115710725113071154125111630441100211101710031125335
215035
CKA_CLASS CK_OBJECT_CLASS 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\171\133\153\004\122\234\135\307\164\063\033\045\232\371\045
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\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\023\122\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\307\154\251\163\044\100\211\017\003\125\335
\125\035
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
# 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_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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\100\211\017\003\125\004\006\023\002\125\123\061
# 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
\052\035\140\047\331\112\034\115\221\034\151\151\147\154\145\040\124\162\165\163\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

CKA_CERT_MD5_HASH MULTILINE_OCTAL

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\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\131\021\132\224\266\350\273\073\052\330\242\262\301\231

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 "UCA Global G2 Root"
#

Open Source Used In Crosswork Optimization Engine 4.0.0 9744
# 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

CKAPRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "UCA Global G2 Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_issuer MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\0125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\010\075\154\157\142\141\154\040\010\075\062\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\321\132\132\135\135\276\132\145\040\145\020\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):

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 "UCA Extended Validation Root"

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\103\116\061
\021\060\017\006\003\125\004\012\014\010\0125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\010\075\154\157\142\141\154\040\010\075\062\040\122\157\157\164

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\0125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\010\075\154\157\142\141\154\040\010\075\062\040\122\157\157\164

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\137\322\132\132\135\135\276\132\145\040\145\020
Open Source Used In Crosswork Optimization Engine 4.0.0  9751
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\100\006\003\125\004\006\023\002\106\122\061
\022\060\020\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\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\010\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\100\006\003\125\004\006\023\002\106\122\061
\022\060\020\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\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\010\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\002\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\013\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
\151\163\061\134\060\032\006\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\013\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\060\036\027\015\061
\063\061\060\060\061\060\070\063\060\062\062\067\132\027\015\063\063
\061\060\060\061\060\070\063\060\062\067\132\060\132\060\132\060
\011\060\033\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\013
\060\032\006\003\125\004\013\014\023\060\060\060\060\062\040\064\070
\061\064\060\063\060\070\061\060\060\060\063\060\061\031\060\027
\006\003\125\004\003\014\020\103\145\162\164\151\147\156\141\040
\122\157\151\164\040\103\101\060\020\020\020\042\060\015\060\110\052
\206\102\026\367\015\001\001\005\000\003\202\002\017\000\060
\202\020\012\020\02\020\000\003\150\030\071\145\032\131\261\352
\144\026\016\124\222\044\225\174\203\323\305\071\046\334\014\357
\026\127\215\327\330\025\424\102\177\202\132\135\315\133\333\016
\267\055\355\105\010\027\262\331\263\313\326\027\122\162\050\333
\270\236\117\360\343\225\010\042\234\73\151\150\101\367\034\125\325
\174\000\342\055\072\211\135\150\070\057\121\042\013\112\215\313
\351\273\135\076\273\134\075\261\105\037\346\123\125\023\317\241
\220\033\002\035\137\146\106\011\063\050\343\101\054\44\227\160\323
\020\037\352\144\127\226\073\135\332\347\304\214\117\114\144\106
\035\134\207\343\131\336\101\023\221\332\250\176\246\211\133\52\317\034
\311\060\020\235\50\373\234\315\305\051\034\152\330\002\165\067
\253\367\064\050\050\221\136\200\041\211\170\065\343\140\046\000\1372
\320\020\121\143\107\211\152\356\257\075\303\012\303\217\137\063\171
\074\206\250\163\105\220\214\040\266\162\163\027\043\276\007\145
\345\170\222\015\272\001\130\035\241\046\147\277\254\206\167\001
\224\015\234\346\351\071\121\037\246\121\124\231\014\071\167\341
\264\233\372\034\147\217\157\152\212\165\251\053\114\127\171\172
\127\042\317\315\137\143\106\215\134\111\072\063\370\062\107\142
\243\147\015\030\022\211\334\373\246\153\365\110\141\113\043\131\216
\002\242\274\104\352\236\111\235\361\124\130\371\140\257\332\030
\244\057\050\105\334\373\172\240\210\206\135\363\073\347\377\051\065
\200\234\144\033\223\246\346\343\034\157\276\255\016\052\143\231\053
\311\176\205\366\161\135\006\003\225\357\336\121\110\034\132\324
\222\250\053\356\347\061\133\272\004\152\207\230\347\305\137\357
\175\247\042\367\001\300\115\371\121\132\001\162\232\005\131\244\236
\230\333\157\053\312\160\267\144\302\125\243\364\351\257\303\222
\051\334\210\260\044\231\074\215\046\230\266\133\267\314\316\267
\067\070\375\046\333\230\205\044\377\131\143\043\003\232\355\235\235
\250\344\136\070\031\163\272\122\015\157\322\077\155\261\005\153\111
\316\212\221\106\163\364\366\057\360\250\161\167\016\145\254\241
\215\146\122\151\117\113\150\014\307\036\067\047\203\245\214\307
\002\244\024\315\111\001\260\163\263\375\306\220\072\157\232\154
\355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160
\336\100\017\370\174\025\367\242\316\074\327\136\023\214\010\027
\030\027\322\152\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_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 “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
# 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\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\061\106\066\060\070\061\060\060\060\060\060
\066\061\031\060\027\006\003\125\004\003\014\020\010\151\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_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_APPROVEDCK_BBOOL CK_FALSE

\134\027\346\160\076\065\347\242\267\302\142\342\253\244\070\114
\265\071\065\157\332\003\151\372\072\124\150\205\155\326\362\057
\103\125\036\222\015\016\330\325\125\244\422\263\321\023\074\054\170
\120\350\072\222\322\027\126\345\065\032\125\035\016\004\026\000\042\4373
\357\015\206\263\260\343\333\251\271\361\041\027\177\076\374\360
\167\053\032\060\016\006\003\125\035\017\001\001\377\004\004\003
\002\001\006\060\017\006\003\125\350\023\001\001\377\004\005\060
\003\001\010\377\060\015\006\011\052\206\11\020\367\015\001\001
\013\005\000\003\202\020\001\001\000\131\377\362\214\365\207\175\161
\075\243\237\303\133\33\321\133\32\370\323\234\153\066\275\233\235\1141
\353\336\026\054\164\075\236\346\165\333\232\272\247\274\102\027
\347\075\221\353\345\175\335\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\357\215\323\065\303\030\141\173\000\126\034\315\213\031
\164\336\276\017\022\340\320\252\241\077\002\064\261\160\316\235
\030\268\010\003\011\106\356\140\340\176\266\304\110\004\121\175
\160\014\274\252\262\377\171\162\172\246\035\075\137\052\370\312
\342\375\071\267\107\271\135\176\337\004\043\257\372\234\006\007
\351\373\143\223\200\100\265\306\154\012\061\050\316\014\237\317
\263\043\065\200\010\125\154\304\067\173\010\057\200\241\100\102
\205\351\331\107\021\155\024\112\331\150\011\277\151\350\132\066\362
\105\013\220\327\265\341\277\235\362\256\127\074\245\256\262\126
\364\213\145\100\351\137\061\201\054\364\071\011\330\356\153\1247
\262\046\035\025\245\230\367\001\201\330\205\175\363\121\134\161
\210\336\272\314\037\200\176\112
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):

CKA_CLASS CK/Object_CLASS 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
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
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\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\365\344\142\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=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):
# 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"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\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\036\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\105\103\103

# 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:a9:68:70:0eda: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
# 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\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\056\043\060\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\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_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\130\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\056\043\060\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\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:bac:c4:cf:32:f8:43:h2
# 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
\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\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\103\010\040\055\040\010\03\061
END
CKA_ID UTF8 "0"
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\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\103\010\040\055\040\010\03\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\027\304\317\062\370\103\262
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\016\033\060\202\002\133\240\003\02\001\002\002\013\000
\256\317\000\272\304\317\062\370\103\262\060\015\006\011\052\206
\110\206\367\150\001\010\13\005\000\060\126\061\103\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\101\144\150\162\141\040
\111\156\143\061\034\060\032\125\004\003\023\023\145\155\123\151\147
\156\040\122\157\157\164\040\103\010\040\055\040\010\03\061

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Open Source Used In Crosswork Optimization Engine 4.0.0 9761
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 - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:bac: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 \313\206\117\001
END
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\131\011\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\006\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\031\000\272\304\317\062\370\103\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 "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
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\032\233\201\123\175\366\357\153\030\037\037\140\025
\014\356\110\146
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\356\327\020\370\323\260\035\027\222\365\325
END

CKA_ISSUER MULTILINE_OCTAL
\060\132\066\011\006\003\125\004\006\012\125\123\061
\023\066\021\000\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\000\003\125\004\012\023\013\145
Open Source Used In Crosswork Optimization Engine 4.0.0  9766

# Certificate "Hongkong Post Root CA 3"
#
# Issuer: CN=Hongkong Post Root,OU=Hong Kong,ST=Hong Kong,C=HK
# Serial Number: 08:16:5f:8a:4c:a5:ec:00:93:40:df:c4:ae:23:8:1c:5a:a4
# Subject: CN=Hongkong Post Root,OU=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"

END
Open Source Used In Crosswork Optimization Engine 4.0.0 9769

# 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
# 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_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
END
# 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:bs:43:7f: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
\060\013\060\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\15\015\156\164\162\165
\163\164\054\040\11\156\143\056\061\050\060\046\000\003\125\004
\013\023\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\153\061\071\060\067\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\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_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\013\060\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\15\015\156\164\162\165
\163\164\054\040\11\156\143\056\061\050\060\046\000\003\125\004
\013\023\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\153\061\071\060\067\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\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

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CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL


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:a9:39:00:00:00:00:55:65: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_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\201\276\061\013\060\001\11\060\003\125\004\006\023\002\125\123
\061\126\060\024\006\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\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\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\156\164\162\165\163\164\054\040\111

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1.1235 xbean-naming 4.17
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---------------------------------------------------------------------------

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 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
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* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/client/ResourceAccessException.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/jstl/DelegatingPhaseListenerMulticaster.java
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* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/server/reactive/ServerHttpResponseDecorator.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/server/session/CookieWebSessionIdResolver.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpRequest.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpRequest.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/server/reactive/ServerHttpRequestDecorator.java
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* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/client/OkHttp3AsyncClientHttpRequest.java
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* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/converter/json/GsonBuilderUtils.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/util/AbstractUriTemplateHandler.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/remoting/jaxws/JaxWsPortProxyFactoryBean.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/context/request/async/AsyncWebRequest.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/client/AbstractBufferingAsyncClientHttpRequest.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/bind/EscapedErrors.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/client/OkHttp3ClientHttpResponse.java

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* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/http/server/ServerHttpResponse.java
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# This file maps Internet media types to unique file extensions.
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased) Extensions
# ==============================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smt
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml application/ccxml+xml
# application/cdfx+xml
application/cdmi-capability+cdmia
application/cdmi-container+cdmic
application/cdmi-domain+cdmid
application/cdmi-object+cdmio
application/cdmi-queue+cdmiq
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# application/cea
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# application/cnrp+xml
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# application/cybercash
# application/dash+xml
# application/dashdelta
davmount
# application/davmount+xml
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# application/dca-rft
dcd
# application/dec-dx
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# application/dialog-info+xml
dicom
di
dit
# application/dns
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application/dssc+der
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# application/vnd.oipf.spdisccovery+xml
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# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
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# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
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# application/vnd.oma.bcast.sgboot
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# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
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# application/vnd.oma.lwm2m+tlv
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# application/vnd.oma.poc.optimized-progress-report+xml
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* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1346931645_1655514399.2231686/0/spring-web-5-3-21-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
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jar/net/sf/ehcache/management/resource/CacheStatisticSampleEntity.java
* /opt/cola/permits/1258947697_1643119228.97/0/management-ehcache-v1-2-10-6-sources-
jar/net/sf/ehcache/management/resource/services/ElementsResourceServiceImpl.java
* /opt/cola/permits/1258947697_1643119228.97/0/management-ehcache-v1-2-10-6-sources-
jar/net/sf/ehcache/management/service/CacheManagerService.java
* /opt/cola/permits/1258947697_1643119228.97/0/management-ehcache-v1-2-10-6-sources-
jar/net/sf/ehcache/management/resource/services/CacheStatisticSamplesResourceServiceImpl.java

1.1243 idna 13.0.0

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1.1245 commons-lang3 3.8.1

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1.1246 pep517 0.10.0
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1.1247 simpleclient-servlet 0.15.0
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Manifest-Version: 1.0
Bnd-LastModified: 1644098926756
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: HTTP servlet exporter for the simpleclient.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Servlet - Javax
Bundle-SymbolicName: io.prometheus.simpleclient_servlet
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client;version="0.15.0";uses:="io.prometheus
us.client.exemplars,io.prometheus.client.servlet.common.adapter,javax.servlet.servlet.http,io.prometheus.client.filter;uses:="javax.servlet";version="0.15.0",io.prometheus.client.exporter;uses:="io.prometheus.client.servlet.servlet.http";version="0.15.0"
Import-Package: io.prometheus.client.exemplars;version="[0.15,1)".io.prometheus.client.servlet.common.adapter;version="[0.15,1)".io.prometheus.client.servlet.common.exporter;version="[0.15,1)".io.prometheus.client.servlet.common.filter;version="[0.15,1)".javax.servlet;version="[3.1,4)".javax.servlet.http;version="[3.1,4)"
Tool: Bnd-2.1.0.20130426-122213

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  * [2013-04-27] Optimize AVX and FMA4 TRSM on AMD Bulldozer
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  * [2013-06-11] Optimize AVX and FMA4 ZGEMM on AMD Bulldozer
  * [2013-06-12] Optimize AVX and FMA4 CGEMM on AMD Bulldozer
* [2013-06-16] Optimize dgemv_n kernel on AMD Bulldozer
* [2013-06-20] Optimize ddot, daxpy kernel on AMD Bulldozer
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  * [2012-07-01] Improve the detection of sparc. Fix building bug under Hurd and kfreebsd.

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  * [2012-08-20] Provide support for passing CFLAGS, FFLAGS, PFLAGS, FPFLAGS to make on the command line.

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  * [2013-08-28] Avoid failure on qemu guests declaring an Athlon CPU without 3dnow!

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  * [2013-07-24] Add stack markings for GNU as arch-independent for assembler files

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  * [2013-08-28] Missing threshold in gemm.c
  * [2013-08-28] fix default prefix handling in makefiles

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  * [2014-08-03] Fixed link error on Linux/musl

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  * [2014-10-10] trmm and sgemm kernels (optimized for APM's X-Gene 1). ARMv8 support.

* Jerome Robert <jeromerobert@gmx.com>
  * [2015-01-01] Speed-up small `ger` and `gemv` using stack allocation (bug #478)
  * [2015-12-23] `stack_check` in `gemv.c` (bug #722)
  * [2015-12-28] Allow to force the number of parallel make job
  * [2015-12-28] Fix detection of AMD E2-3200 detection
  * [2015-12-31] Let `make MAX_STACK_ALLOC=0` do what expected
  * [2016-01-19] Disable multi-threading in `ger` and `swap` for small matrices (bug #731)
  * [2016-01-24] Use `GEMM_MULTITHREAD_THRESHOLD` as a number of ops (bug #742)
  * [2016-01-26] Let `openblas_get_num_threads` return the number of active threads (bug #760)
  * [2016-01-30] Speed-up small `zger`, `zgemv`, `ztrmv` using stack allocation (bug #727)

* Dan Kortschak
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  * [2015-03-18] Fix race condition during shutdown causing a crash in gotoblas_set_affinity().

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  * [2015-11-09] Assembly kernels for Cortex-A57 (ARMv8)
  * [2015-11-20] lapack-test fixes for Cortex-A57
  * [2016-03-14] Additional functional Assembly Kernels for Cortex-A57
  * [2016-03-14] Optimize Dgemm 4x4 for Cortex-A57

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  * [2016-03-22] Fix access violation on Windows while static linking

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  * [2016-02-04] Fix Android build on ARMV7
  * [2016-04-26] Android build with LAPACK for ARMV7 & ARMV8

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  * [2016-05-03] DGEMM optimization for MIPS P5600 and I6400 using MSA

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  * [2016-05-09] DTRSM optimization for MIPS P5600 and I6400 using MSA
* [2016-05-20] STRSM optimization for MIPS P5600 and I6400 using MSA

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  * [2017-01-01] dgemm and dtrmm kernels for IBM z13
  * [2017-02-26] ztrmm kernel for IBM z13
  * [2017-03-13] strmm and ctrmm kernel for IBM z13
  * [2017-09-01] initial Blas Level-1,2 (double precision) for IBM z13
  * [2018-03-07] added missing Blas Level 1-2 (double precision) simd codes
  * [2019-02-01] added missing Blas Level-1,2 (single precision) simd codes
  * [2019-03-14] power9 dgemm/dtrmm kernel
  * [2019-04-29] power9 sgemm/strmm kernel

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  * [2019-11-12] AVX512 CGEMM & ZGEMM kernels
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  * [2020-05-12] Add new sgemm and strmm kernel for IBM z14
  * [2020-09-07] Fix builds with clang on IBM z, including dynamic architecture support

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  * [2020-05-20] Improve performance of SGEMM and STRMM on Arm Cortex-A53

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  * [2021-11-20] Vector-length-agnostic Arm SVE copy routines for DGEMM, DTRMM, DSYMM
  * [2021-11-12] SVE kernels for SGEMM, STRMM and corresponding SVE copy functions
  * [2022-01-06] SVE kernels for CGEMM, ZGEMM, CTRMM, ZTRMM and corresponding SVE copy functions
  * [2022-01-18] SVE kernels and copy functions for TRSM

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1.1252 jetty-http 9.4.28.v20200408

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

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
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* /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/compiler/ast/Expr.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformAfter.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPoolTail.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
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1.1260 spring-jdbc 5.3.21

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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#createCallableStatementCreator(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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* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources.jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/lob/LobHandler.java

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* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
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* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
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* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jjdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jjdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jjdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /opt/cola/permits/1347858321_1655733687.2580528/0/spring-jjdbc-5-3-21-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.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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jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
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jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
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jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.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/datasource/UserCredentialsDataSourceAdapter.java
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*/
/**
* 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.
*/

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1.1261 management-common-resources-v1

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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1.1274 commons-codec 1.15

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* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.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</a>
* Base64 Encoder/Decoder</a>.  
*/

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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 <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.
 * <p>
 * <pre>
 * <b>lengthFieldOffset</b>   = <b>0</b>
 * <b>lengthFieldLength</b>   = <b>2</b>
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
Because we can get the length of the content by calling
Field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
specified `<tt>2</tt>`, that is same with the length of the length field, to
strip the first two bytes.

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

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

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

**2 bytes length field at offset 0, do not strip header, the length field
represents the length of the whole message**

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2
initialBytesToStrip = 0
```

BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)

```
| Length | Actual Content |----->| Actual Content |
| 0x000E | "HELLO, WORLD" | 0x000E | "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
`lengthAdjustment`. Because the length value in this example message
is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
as `<tt>lengthAdjustment</tt>` for compensation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2
initialBytesToStrip = 0
```

BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)

```
| Length | Actual Content |----->| Actual Content |
| 0x000E | "HELLO, WORLD" | 0x000E | "HELLO, WORLD"
```
* 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. \texttt{lengthAdjustment} is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

* \texttt{<pre>
lengthFieldOffset = 2 (= the length of Header 1)
lengthFieldLength = 3
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>**

* 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 \texttt{lengthAdjustment} so that the decoder counts the extra
* header into the frame length calculation.

* \texttt{<pre>
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>**

* 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 \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{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 `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

* `<pre>`
  * lengthFieldOffset = 1 (= the length of HDR1)
  * lengthFieldLength = 2
  * `<b>`lengthAdjustment</b>`/`<b>` = `<b>`1</b>` (= the length of HDR2)
  * `<b>`initialBytesToStrip</b>`/`<b>` = `<b>`3</b>` (= 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" |
  * +-----------------+-----------------+      +-----------------+-----------------+
  * </pre>

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

* Let’s give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* `<pre>`
  * lengthFieldOffset = 1
  * lengthFieldLength = 2
  * `<b>`lengthAdjustment</b>`/`<b>` = `<b>`-3</b>` (= the length of HDR1 + LEN, negative)
  * `<b>`initialBytesToStrip</b>`/`<b>` = `<b>`3</b`
* `<pre>`
  * BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
  * +-----------------+-----------------+      +-----------------+-----------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x0100 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +-----------------+-----------------+      +-----------------+-----------------+
  * </pre>

* @see LengthFieldPrepender
*/

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jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/DateFormatter.java
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jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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jar/io/netty/handler/codec/string/LineEncoder.java
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jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
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* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/compression/xml/XmlFrameDecoder.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
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jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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jar/io/netty/handler/codec/protobuf/package-info.java
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jar/io/netty/handler/codec/LengthFieldPrepender.java
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jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1266038235_1643973983.35/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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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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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
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
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
Sections above.

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains 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
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To "modify" a work means to copy from or adapt all or part of the work
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To "propagate" a work means to do anything with it that, without
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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
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Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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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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- /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-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
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- /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
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- /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/StanBench.java
- /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/MessageHandler.java
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1.1305 apache-karaf-specs-locator 4.2.9

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1.1306 py3-msgpack 1.0.2-r1

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1.1307 toml 0.10.0

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1.1308 spring-web-mvc 5.3.18

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MACRO executions and definitions begin with '/' and end when you hit ENTER.
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SQL Statements are terminated by either unquoted ' ; (which executes the
statement), or a blank line (which moves the statement into the edit buffer
without executing).
After turning on variable expansion with command "=" (or any other PL
command), PL variables may be used in most commands like so: 
\*[PLVARNAME].
Be aware when using regular expressions on commands, that the regex.s
operate only on the command text after the * or \ prefix, if any.

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/cmdline/sqltool/SqlFile.banner.text
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/**
 * Comprehensive information about the database as a whole.
 */

 * This interface is implemented by driver vendors to let users know the capabilities
 * of a Database Management System (DBMS) in combination with
 * the driver based on JDBC technology
 * ("JDBC driver") that is used with it. Different relational DBMSs often support
 * different features, implement features in different ways, and use different
 * data types. In addition, a driver may implement a feature on top of what the
 * DBMS offers. Information returned by methods in this interface applies
 * to the capabilities of a particular driver and a particular DBMS working
 * together. Note that as used in this documentation, the term "database" is
 * used generically to refer to both the driver and DBMS.

 * A user for this interface is commonly a tool that needs to discover how to
 * deal with the underlying DBMS. This is especially true for applications
 * that are intended to be used with more than one DBMS. For example, a tool might use the method
 * `<code>getTypeInfo</code>` to find out what data types can be used in a
 * `<code>CREATE TABLE</code>` statement. Or a user might call the method
 * `<code>supportsCorrelatedSubqueries</code>` to see if it is possible to use
* a correlated subquery or `<code>supportsBatchUpdates</code>` to see if it is
* possible to use batch updates.
* `<p>`
* Some `<code>DatabaseMetaData</code>` methods return lists of information
* in the form of `<code>ResultSet</code>` objects.
* Regular `<code>ResultSet</code>` methods, such as
* `<code>getString</code>` and `<code>getInt</code>`, can be used
* to retrieve the data from these `<code>ResultSet</code>` objects. If
* a given form of metadata is not available, an empty `<code>ResultSet</code>`
* will be returned. Additional columns beyond the columns defined to be
* returned by the `<code>ResultSet</code>` object for a given method
* can be defined by the JDBC driver vendor and must be accessed
* by their `<B>column label</B>`.
* `<p>`
* Some `<code>DatabaseMetaData</code>` methods take arguments that are
* String patterns. These arguments all have names such as `fooPattern`.
* Within a pattern String, `%` means match any substring of 0 or more
* characters, and `_` means match any one character. Only metadata
* entries matching the search pattern are returned. If a search pattern
* argument is set to `<code>null</code>`, that argument's criterion will
* be dropped from the search.
* `<p>`
* A method that gets information about a feature that the driver does not
* support will throw an `<code>SQLException</code>`.
* In the case of methods that return a `<code>ResultSet</code>`
* object, either a `<code>ResultSet</code>` object (which may be empty) is
* returned or an `<code>SQLException</code>` is thrown.
* `<p>`
* <!-- start release-specific documentation -->
* `<div class="ReleaseSpecificDocumentation">`
* `<h3>HSQLDB-Specific Information:</h3>`
* `<p>`
* `<h4>Metadata Table Production</h4>`
* Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
* implementation provided in the default build filters metadata based on each
* SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
* restriction that only users with the DBA role
* ('admin' users in older HSQLDB parlance) could expect trouble-free access to
* all metadata.<p>`
* *
* Also starting with HSQLDB 1.7.2, the metadata table production implementation
* classes are loaded dynamically, using a precedence policy to find and load
* the richest producer available at runtime. In the event that no better
* alternative is found, the default minimal (completely restricted) provider
* is selected. Under this scheme, it is possible for third party packagers to
* create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time | hostile environment) metadata table production scenarios. To learn more about this option, interested parties can review the documentation and source code for the `<code>org.hsqldb.dbinfo.DatabaseInformation class</code>`.

* Please also note that in addition to the metadata tables produced to directly support this class, starting with HSQLDB 1.7.2, the default build provides many additional tables covering all or most HSQLDB features, such as descriptions of the triggers and aliases defined in the database. <p>

* For instance, in the default build, a fairly comprehensive description of each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA column is included in the REMARKS column of the `{@link #getTables(java.lang.String, java.lang.String, java.lang.String, java.lang.String[])}` and `{@link #getColumns(java.lang.String, java.lang.String, java.lang.String, java.lang.String) getColumns(...)}` results, which derive from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS, respectively.<p>

* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded in compliance with the SQL:2011 Standard and report the properties of all database objects. <p>

* <h4>Schema Metadata</h4>

* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and this fact is reflected in the all subsequent versions of this class. <p>

* <h4>Catalog Metadata</h4>

* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond is a major theme which is reflected in the provision of the majority of the standard-defined full-name INFORMATION_SCHEMA views. <p>

* However, just as CATALOG semantics and handling are still considered to be implementation defined by the most recent SQL standard (SQL:2008), so is the HSQLDB CATALOG concept still in the process of being defined and refined in HSQLDB 2.x. and beyond.<p>

* Previous to HSQLDB 2.x, there were, at various points in time, experimental features provided to turn on pseudo catalog (and before that, pseudo-schema) reporting in the system tables, using the database properties 'hsqldb.catalogs' and 'hsqldb.schemas', respectively. <p>

* However, once the engine fully supported the SQL SCHEMA concept, the experimental 'hsqldb.schemas' database property was retired. <p>

* Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property
* has been retired and replaced with the convention that, from the perspective
* of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB
* database instance which consists of a single, default CATALOG
* named PUBLIC in which each SCHEMA instance of the database resides. The name of
* this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement.
* As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of
* database objects at the syntactic level, but does not yet support operations
* such as opening, manipulating or querying against multiple database
* catalogs within a single session, not even in a one-at-a-time fashion.
*
* <h4>Index Metadata</h4>
*
* It must still be noted that as of the most recent release, HSQLDB continues
* to ignore the &lt;code&gt;approximate&lt;/code&gt; argument of [&lt;link #getIndexInfo
* getIndexInfo()&gt; as no data is returned for CARDINALITY and PAGES columns.
*
* <h4>Notes for developers extending metadata table production</h4>
*
* Note that in the absence of an ORDER BY clause, queries against the metadata
* tables that directly support this class are expected to return rows in JDBC
* contract order. The reason for this is that results typically come
* back much faster when no &quot;ORDER BY&quot; clause is used. <p>
*
* As such, when adding, extending or replacing a JDBC database metadata table
* production routine, developers need to be aware of this fact and either add the
* contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible,
* preferably maintain rows in the contract order by correctly coding the
* primary index definition in the table producer class.
*
* <hr>
* (fredt@users)<br>
* (campbell-burnet@users)
* </div>
*
* @author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
* @author Fred Toussi (fredt@users dot sourceforge.net)
* @version 2.5.0
* @since HSQLDB 1.9.0
* @see org.hsqldb.dbinfo.DatabaseInformation
*/

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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/jdbc/JDBCDatabaseMetaData.java
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jar/org/hsqldb/util/preprocessor/Line.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/Preprocessor.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/LineType.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/Parser.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/BasicResolver.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/Token.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/Document.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/org/hsqldb/util/preprocessor/AntResolver.java
 * /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-

jar/org/hsqldb/util/preprocessor/Tokenizer.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Option.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/PreprocessorException.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/IResolver.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/preprocessor/Defines.java

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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/test/TestScript.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/ExpressionAccessor.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/test/TestNullInUnion.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/sample/TriggerSample.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/SessionContext.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/lib/HsqlArrayHeap.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/auth/JaasAuthBean.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/hsqldb/TableUtil.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/StatementHandler.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/lib/DoubleLongIndex.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/test/TestJDBCSavepoints.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/util/TransferResultSet.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/SessionData.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-
jar/hsqldb/test/TestKarl.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/test/TestCacheSize.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/ExpressionColumnAccessor.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/DatabaseManager.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/persist/EventLogInterface.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/trigger/Trigger.java
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* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/types/CharsetName.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/types/OtherType.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb/test/TestHashStructures.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb/util/ConnectionDialogCommon.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb/db/JDBCCLobClient.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb/index/Index.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/persist/LobStoreRAFile.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources.jar/org/hsqldb/types/LobData.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestLobs.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/ArrayType.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/tar/TarGenerator.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCConnection.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCClobFile.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/Iterator.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/StatementCommand.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/rowio/RowOutputBase.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/RoutineSchema.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/DirectoryBlockCachedObject.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/BlobDataID.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/CharacterType.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/HsqlDatabaseProperties.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/UserTypeModifier.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/RandomAccessInterface.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/ParserDQL.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/rowio/RowInputBinary180.java
* /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/TimestampData.java
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- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/ArrayListIdentity.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/persist/RAFileInJar.java
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- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/IntIndex.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/Token.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/TimeData.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/test/TestDataStructures.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/server/WebServer.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/CountdownInputStream.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/HelperFactory.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/server/RecoverableOdbcFailure.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/IntKeyIntValueHashMap.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCBlobFile.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/TransactionManager.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/TriggerDef.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/BasicTextJdkLogFormatter.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/JDBCRowId.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/index/NodeAVLDiskLarge.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/jdbc/pool/JDBCXAConnection.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/types/IntervalType.java
- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/util/GridSwing.java
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- /opt/ws_local/PERMITS_SQL/1012932414_1588629987.16/0/hsqldb-2-5-0-sources-jar/org/hsqldb/lib/LongValueHashMap.java
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/**
 * provides cross-package access to the proprietary (i.e. non-JDBC)
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 *
 * @return the underlying sessionProxy for this connection
 */

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  jar/org/hsqldb/jdbc/JDBCConnection.java

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* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/netty_unix_buffer.c
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* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/netty_unix_limits.c
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/netty_unix_limits.h
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/netty_unix_util.c
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/netty_unix_limits.h
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* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native- unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
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* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native- unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native- unix-common-4-1-52-final-sources-jar/netty_unix_filedescriptor.c
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native- unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
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

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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
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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
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1.1332 zlib 1.2.12-r1

1.1332.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022

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jloup@gzip.org          madler@alumni.caltech.edu

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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
/* zutil.c -- target dependent utility functions for the compression library
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 */

1.1333 management-ehcache-common 2.10.6

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* /opt/cola/permits/1258890385_1643121746.78/0/management-ehcache-common-2-10-6-sources-jar/net/sf/ehcache/management/ApplicationEhCache.java
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* /opt/cola/permits/1258890385_1643121746.78/0/management-ehcache-common-2-10-6-sources-jar/net/sf/ehcache/management/resource/services/validator/impl/EmbeddedEhcacheRequestValidator.java
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1.1334 glibc 2.31-0ubuntu9.7
1.1334.1 Available under license:

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1.1336 simpleclient-common 0.15.0
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Manifest-Version: 1.0
Bnd-LastModified: 1644098861383
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli-
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Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses="io.prometheus.s.client";version="0.15.0"
Import-Package: io.prometheus.client;version="[0.15,1)",io.prometheus.client.exemplars;version="[0.15,1)"
Tool: Bnd-2.1.0.20130426-122213

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1.1339 openconfig-parser-support 5.0.7

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1.1340 libvorbis 1.3.6 2ubuntu1

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1.1341 openblas 0.3.20-r0

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  * [2013-04-27] Optimize AVX and FMA4 TRSM on AMD Bulldozer
  * [2013-06-09] Optimize AVX and FMA4 SGEMM on AMD Bulldozer
  * [2013-06-11] Optimize AVX and FMA4 ZGEMM on AMD Bulldozer
  * [2013-06-12] Optimize AVX and FMA4 CGEMM on AMD Bulldozer
  * [2013-06-16] Optimize dgemv_n kernel on AMD Bulldozer
  * [2013-06-20] Optimize ddot, daxpy kernel on AMD Bulldozer
  * [2013-06-21] Optimize dcopy kernel on AMD Bulldozer
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  * Optimization on AMD Piledriver
  * Optimization on Intel Haswell
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* Build LAPACK: C interface to LAPACK
* Improve the windows build.

* Chen Shaohu <huhumartinwar@gmail.com>
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* Luo Wen
* Intern. Test Level-2 BLAS.

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* Alexander Eberspcher <https://github.com/aeberspaecher>
  * [2012-05-02] Add note on patch for segfaults on Linux kernel 2.6.32.

* Mike Nolta <mike@nolta.net>
  * [2012-05-19] Fix building bug on FreeBSD and NetBSD.

* Sylvestre Ledru <https://github.com/sylvestre>
  * [2012-07-01] Improve the detection of sparc. Fix building bug under Hurd and kfreebsd.

* Jameson Nash <https://github.com/vtjnash>
  * [2012-08-20] Provide support for passing CFLAGS, FFLAGS, PFLAGS, FPFLAGS to make on the command line.

* Alexander Nasonov <alnsn@yandex.ru>

* Sébastien Villemot <sebastien@debian.org>
  * [2012-11-14] Fix compilation with TARGET=GENERIC. Patch applied to Debian package.
  * [2013-08-28] Avoid failure on qemu guests declaring an Athlon CPU without 3dnow!

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  * [2013-05-22] Fix a bug about wget.

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  * [2013-07-11] create openblas_get_parallel to retrieve information which parallelization model is used by OpenBLAS.

* Elliot Saba <staticfloat@gmail.com>
  * [2013-07-22] Add in return value for `interface/trtri.c`

* Sbastien Fabbro <bicatali@gentoo.org>
  * [2013-07-24] Modify makefile to respect user's LDFLAGS
  * [2013-07-24] Add stack markings for GNU as arch-independent for assembler files

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  * [2013-08-28] Missing threshold in gemm.c
  * [2013-08-28] fix default prefix handling in makefiles

* yieldthought <https://github.com/yieldthought>
  * [2013-10-08] Remove -Wl,--retain-symbols-file from dynamic link line to fix tool support

* Keno Fischer <https://github.com/loladiro>
  * [2013-10-23] Use FC instead of CC to link the dynamic library on OS X

* Christopher Meng <cickumqt@gmail.com>
  * [2013-12-09] Add DESTDIR support for easier building on RPM based distros.
    Use install command instead of cp to install files with permissions control.

* Lucas Beyer <lucasb.eyer.be@gmail.com>
  * [2013-12-10] Added support for NO_SHARED in make install.

* carlkl <https://github.com/carlkl>
  * [2013-12-13] Fixed LAPACKE building bug on Windows

* Isaac Dunham <https://github.com/idunham>
  * [2014-08-03] Fixed link error on Linux/musl

* Dave Nuechterlein
  * [2014-10-10] trmm and sgemm kernels (optimized for APM's X-Gene 1).
ARMv8 support.

* Jerome Robert <jeromerobert@gmx.com>
  * [2015-01-01] Speed-up small `ger` and `gemv` using stack allocation (bug #478)
  * [2015-12-23] `stack_check` in `gemv.c` (bug #722)
  * [2015-12-28] Allow to force the number of parallel make job
  * [2015-12-31] Let `make MAX_STACK_ALLOC=0` do what expected
  * [2016-01-19] Disable multi-threading in `ger` and `swap` for small matrices (bug #731)
  * [2016-01-24] Use `GEMM_MULTITHREAD_THRESHOLD` as a number of ops (bug #742)
  * [2016-01-26] Let `openblas_get_num_threads` return the number of active threads (bug #760)
  * [2016-01-30] Speed-up small `zger`, `zgemv`, `ztrmv` using stack allocation (bug #727)

* Dan Kortschak
  * [2015-01-07] Added test for drotmg bug #484.

* Ton van den Heuvel <https://github.com/ton>
  * [2015-03-18] Fix race condition during shutdown causing a crash in gotoblas_set_affinity().

* Martin Koehler <https://github.com/grisuthedragon/>
  * [2015-09-07] Improved imatcopy

* Ashwin Sekhar T K <https://github.com/ashwinyes/>
  * [2015-11-09] Assembly kernels for Cortex-A57 (ARMv8)
  * [2015-11-20] lapack-test fixes for Cortex-A57
  * [2016-03-14] Additional functional Assembly Kernels for Cortex-A57
  * [2016-03-14] Optimize Dgemm 4x4 for Cortex-A57

* theoractice <https://github.com/theoractice/>
  * [2016-03-20] Fix compiler error in VisualStudio with CMake
  * [2016-03-22] Fix access violation on Windows while static linking

* Paul Mustire <https://github.com/buffer51/>
  * [2016-02-04] Fix Android build on ARMV7
  * [2016-04-26] Android build with LAPACK for ARMV7 & ARMV8

* Shivraj Patil <https://github.com/sva-img/>
  * [2016-05-03] DGEMM optimization for MIPS P5600 and I6400 using MSA

* Kaustubbh Raste <https://github.com/ksraste/>
  * [2016-05-09] DTRSM optimization for MIPS P5600 and I6400 using MSA
  * [2016-05-20] STRSM optimization for MIPS P5600 and I6400 using MSA

* Abdelrauf <https://github.com/quickwritereader>
  * [2017-01-01] dgemm and dtrmm kernels for IBM z13
  * [2017-02-26] ztrmm kernel for IBM z13
  * [2017-03-13] strmm and ctrmm kernel for IBM z13
  * [2017-09-01] initial Blas Level-1,2 (double precision) for IBM z13
* [2018-03-07] added missing Blas Level 1-2 (double precision) simd codes
* [2019-02-01] added missing Blas Level-1,2 (single precision) simd codes
* [2019-03-14] power9 dgemm/dtrmm kernel
* [2019-04-29] power9 sgemm/strmm kernel

* Jiachen Wang <https://github.com/wjc404>
* [2019-07-29] optimize AVX2 DGEMM
* [2019-10-20] AVX512 DGEMM kernel (4x8)
* [2019-11-06] optimize AVX512 SGEMM
* [2019-11-12] AVX512 CGEMM & ZGEMM kernels
* [2019-12-23] optimize AVX2 CGEMM and ZGEMM
* [2019-12-30] AVX2 CGEMM3M & ZGEMM3M kernels
* [2020-01-07] optimize AVX2 SGEMM and STRMM

* Rajalakshmi Srinivasaraghavan <https://github.com/RajalakshmiSR>

* Marius Hillenbrand <https://github.com/mhillenibm>
* [2020-05-12] Revise dynamic architecture detection for IBM z
* [2020-05-12] Add new sgemm and strmm kernel for IBM z14
* [2020-09-07] Fix builds with clang on IBM z, including dynamic architecture support

* Danfeng Zhang <https://github.com/craft-zhang>
* [2020-05-20] Improve performance of SGEMM and STRMM on Arm Cortex-A53

* PingTouGe Semiconductor Co., Ltd.
* [2020-10] Add RISC-V Vector (0.7.1) support. Optimize BLAS kernels for Xuantie C910

* River Dillon <oss@outerpassage.net>
* [2021-07-10] fix compilation with musl libc

* Bine Brank <https://github.com/binebrank>
* [2021-10-27] Add vector-length-agnostic DGEMM kernels for Arm SVE
* [2021-11-20] Vector-length-agnostic Arm SVE copy routines for DGEMM, DTRMM, DSYMM
* [2021-11-12] SVE kernels for SGEMM, STRMM and corresponding SVE copy functions
* [2022-01-06] SVE kernels for CGEMM, ZGEMM, CTRMM, ZTRMM and corresponding SVE copy functions
* [2022-01-18] SVE kernels and copy functions for TRSM

* Ilya Kurdyukov <https://github.com/ilyakurdyukov>
* [2021-02-21] Add basic support for the Elbrus E2000 architecture

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* /opt/cola/permits/1092529719_1602546294.08/0/pax-transx-jms-0.4.4-sources-jar/org/ops4j/pax/transx/jms/impl/JMSProducerImpl.java
* /opt/cola/permits/1092529719_1602546294.08/0/pax-transx-jms-0.4.4-sources-jar/org/ops4j/pax/transx/jms/impl/TransxConnectionFactory.java
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* /opt/cola/permits/1092529719_1602546294.08/0/pax-transx-jms-0.4.4-sources-jar/org/ops4j/pax/transx/jms/impl/ManagedConnectionImpl.java
* /opt/cola/permits/1092529719_1602546294.08/0/pax-transx-jms-0.4.4-sources-jar/org/ops4j/pax/transx/jms/ManagedConnectionFactoryBuilder.java

1.1345 groovy 2.4.12

1.1346 scala-reflect 2.13.3

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1.1347 python-certifi 2021.05.30
1.1347.1 Available under license:
This package contains a modified version of ca-bundle.crt:

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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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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1348 iconv 2.31
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-
jar/com/google/gson/annotations/JsonAdapter.java
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1.1358 maven-model-builder 3.6.0

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1.1364 lz4 1.9.3

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    module ietf-restconf {
        yang-version 1.1;
        namespace "urn:ietf:params:xml:ns:yang:ietf-restconf";
        prefix "rc";
    }

    organization
        "IETF NETCONF (Network Configuration) Working Group";

    contact
        "WG Web:  <https://datatracker.ietf.org/wg/netconf/>
        WG List:  <mailto:netconf@ietf.org>
This module contains conceptual YANG specifications for basic RESTCONF media type definitions used in RESTCONF protocol messages.

Note that the YANG definitions within this module do not represent configuration data of any kind. The 'restconf-media-type' YANG extension statement provides a normative syntax for XML and JSON message-encoding purposes.

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This version of this YANG module is part of RFC 8040; see the RFC itself for full legal notices.

revision 2017-01-26 {
  description
    "Initial revision.";
  reference
    "RFC 8040: RESTCONF Protocol.";
}

extension yang-data {
  argument name {
    yin-element true;
  }
  description
    "This extension is used to specify a YANG data template that represents conceptual data defined in YANG. It is
intended to describe hierarchical data independent of protocol context or specific message-encoding format. Data definition statements within a yang-data extension specify the generic syntax for the specific YANG data template, whose name is the argument of the 'yang-data' extension statement.

Note that this extension does not define a media type. A specification using this extension MUST specify the message-encoding rules, including the content media type.

The mandatory 'name' parameter value identifies the YANG data template that is being defined. It contains the template name.

This extension is ignored unless it appears as a top-level statement. It MUST contain data definition statements that result in exactly one container data node definition. An instance of a YANG data template can thus be translated into an XML instance document, whose top-level element corresponds to the top-level container.

The module name and namespace values for the YANG module using the extension statement are assigned to instance document data conforming to the data definition statements within this extension.

The substatements of this extension MUST follow the 'data-def-stmt' rule in the YANG ABNF.

The XPath document root is the extension statement itself, such that the child nodes of the document root are represented by the data-def-stmt substatements within this extension. This conceptual document is the context for the following YANG statements:

- must-stmt
- when-stmt
- path-stmt
- min-elements-stmt
- max-elements-stmt
- mandatory-stmt
- unique-stmt
- ordered-by
- instance-identifier data type

The following data-def-stmt substatements are constrained when used within a 'yang-data' extension statement.
- The list-stmt is not required to have a key-stmt defined.
- The if-feature-stmt is ignored if present.
- The config-stmt is ignored if present.
- The available identity values for any 'identityref'
  leaf or leaf-list nodes are limited to the module
  containing this extension statement and the modules
  imported into that module.

",
}

rc:yang-data yang-errors {
  uses errors;
}

rc:yang-data yang-api {
  uses restconf;
}

grouping errors {
  description
    "A grouping that contains a YANG container
    representing the syntax and semantics of a
    YANG Patch error report within a response message.";

container errors {
  description
    "Represents an error report returned by the server if
    a request results in an error.";

  list error {
    description
      "An entry containing information about one
      specific error that occurred while processing
      a RESTCONF request.";
    reference
      "RFC 6241, Section 4.3.";

    leaf error-type {
      type enumeration {
        enum transport {
          description
            "The transport layer.";
        }
        enum rpc {
          description
            "The rpc or notification layer.";
        }
      }
    }
  }
}
enum protocol {
    description
        "The protocol operation layer.";
}
enum application {
    description
        "The server application layer.";
}
mandatory true;
description
        "The protocol layer where the error occurred.";
}
leaf error-tag {
    type string;
    mandatory true;
description
        "The enumerated error-tag.";
}
leaf error-app-tag {
    type string;
description
        "The application-specific error-tag.";
}
leaf error-path {
    type instance-identifier;
description
        "The YANG instance identifier associated with the error node.";
}
leaf error-message {
    type string;
description
        "A message describing the error.";
}
anydata error-info {
    description
        "This anydata value MUST represent a container with zero or more data nodes representing additional error information.";
}
grouping restconf {
    description
    "Conceptual grouping representing the RESTCONF root resource."
};

container restconf {
    description
    "Conceptual container representing the RESTCONF root resource."
};

container data {
    description
    "Container representing the datastore resource. Represents the conceptual root of all state data and configuration data supported by the server. The child nodes of this container can be any data resources that are defined as top-level data nodes from the YANG modules advertised by the server in the 'ietf-yang-library' module."
}

container operations {
    description
    "Container for all operation resources. Each resource is represented as an empty leaf with the name of the RPC operation from the YANG 'rpc' statement. For example, the 'system-restart' RPC operation defined in the 'ietf-system' module would be represented as an empty leaf in the 'ietf-system' namespace. This is a conceptual leaf and will not actually be found in the module:

    module ietf-system {
        leaf system-reset {
            type empty;
        }
    }

To invoke the 'system-restart' RPC operation:

    POST /restconf/operations/ietf-system:system-restart

To discover the RPC operations supported by the server:
GET /restconf/operations

In XML, the YANG module namespace identifies the module:

```xml
<system-restart
 xmlns='urn:ietf:params:xml:ns:yang:ietf-system'/>
```

In JSON, the YANG module name identifies the module:

```json
"{ 'ietf-system:system-restart' : [null] }
";
```

leaf yang-library-version {
  type string {
    pattern '"[d]{4}-[d]{2}-[d]{2}"';
  }
  config false;
  mandatory true;
  description
    "Identifies the revision date of the 'ietf-yang-library'
     module that is implemented by this RESTCONF server.
     Indicates the year, month, and day in YYYY-MM-DD
     numeric format.";
}

Found in path(s):
* /opt/cola/permits/1317391165_1658080165.46472670/ietf-restconf-1-12-1-sources-jar/META-INF/yang/ietf-restconf@2017-01-26.yang

1.1367 cron 3.0pl1 136ubuntu1

1.1367.1 Available under license:

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* /

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.
Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```bash
    crontab -u uucp -r /usr/lib/uucp/crontab.src
    crontab -u news -r /usr/lib/news/crontab.src
    crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL
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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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" */
" *
" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
" *

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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  3.0pl1.orig/compat.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
  3.0pl1.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-orig-tar-bz2/cron-3.0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
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 * @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $

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1.1368 apache-karaf-management-server
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2.13.3

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Bnd-LastModified: 1644098835491
Build-Jdk: 11.0.13
Built-By: fabian
Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry Agent
Bundle-SymbolicName: io.prometheus.simpleclient_tracer_otel_agent
Bundle-Version: 0.15.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exemplars.tracer.otel_agent;uses="
io.prometheus.client.exemplars.tracer.common";version="0.15.0"
1.1391 ops4j-base-util-collections 1.5.1

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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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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 * Allowing them being read would mean anyone with access to the channel could get them.
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  jar/io/netty/channel/epoll/EpollDatagramChannel.java
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1.1401 pure-eval 0.2.2

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1.1402 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 application framework for rapid development of maintainable high performance 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-INF/MANIFEST.MF

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1.1403 openssl 1.0.2u

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* /opt/cola/permits/1264222488_1643762992.84/0/plexus-interpolation-1-25-sources-jar/org/codehaus/plexus/interpolation/fixed/AbstractDelegatingValueSource.java
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'interpreted' Text
' ' Text
'object-oriented' Text
' ' Text
'programming' Text
' ' Text
'language' Text
'un' Text
'un' Text

'DIST_SUBDIR' Name.Variable
'=' Operator
't' Text
'python' Text
'un' Text

'WRKSRC' Name.Variable
'=' Operator
'@' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC'}' Literal.String.Interpol
'/portbld.static' Text
'un' Text

'PATCH_WRKSRC' Name.Variable
'=' Operator
'@' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC'}' Literal.String.Interpol
'/portbld.static' Text
'GNU_CONFIGURE' Name.Variable
'=' Operator
't' Text
'yes' Text
'\n' Text

'CONFIGURE_TARGET' Name.Variable
'=' Operator
't' Text
'--build' Text
'=' Operator
'$(' Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
')' Literal.String.Interpol
'-portbld-freebsd' Text
'$(' Literal.String.Interpol
'OSREL' Name.Variable
')' Literal.String.Interpol
'\n' Text

'CONFIGURE_SCRIPT' Name.Variable
'=' Operator
't' Text
'../configure' Text
  '# must be relative' Comment.Single
'\n' Text

'CONFIGURE_ENV' Name.Variable
'=' Operator
't' Text
'OPT' Name.Variable
'=' Operator
    Literal.String.Double
'$(' Literal.String.Interpol
'CFLAGS' Name.Variable
')' Literal.String.Interpol
  '# must be relative' Comment.Single
'\n' Text

'SVNVERSION' Name.Variable
'=' Operator
"echo freebsd" Literal.String.Double
'\n' Text

'MAKE_ENV' Name.Variable
'=' Operator
't' Text
'VPATH' Name.Variable
'=' Operator
'"' Literal.String.Double
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'"' Literal.String.Double

'INSTALLS_SHLIB' Name.Variable
'=' Operator
'	' Text
'yes' Text
'\n' Text

'INSTALL_TARGET' Name.Variable
'=' Operator
'	' Text
'altinstall' Text
'\n' Text

'MAN1' Name.Variable
'=' Operator
'	\t' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'
' Text

'USE_PYTHON' Name.Variable
'=' Operator
'	' Text
'yes' Text
'\n' Text

'PYTHON_VERSION' Name.Variable
'=' Operator
'	' Text
'python2.5' Text
'\n' Text

'PYTHON_NODEPENDS' Name.Variable
'=' Operator
'	' Text
'yes' Text
'PORTVERSION' Name.Variable
': ' Punctuation
'S' Name.Variable
'/.c/c/' Punctuation
'} Literal.String.Interpol
'un' Text

'DEMODIR' Name.Variable
'=' Operator
'\t' Text
'$\{' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/examples/' Text
'$\{' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'un' Text

'TOOLSDIR' Name.Variable
'=' Operator
'\t' Text
'$\{' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/share/' Text
'$\{' Literal.String.Interpolation
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'un' Text

'un' Text

'BIN_SCRIPTS' Name.Variable
'=' Operator
'\t' Text
'idle' Text
' ' Text
'pydoc' Text
' ' Text
'python' Text
' ' Text
'python-shared' Text
' ' Text
'smtpd.py' Text
' ' Text
'python-config' Text
' ' Text

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BINLINKS_SUB = '-e "s.smtplib.smtpd$PYTHON_VER," -e "s,(idle|pydoc|python-shared|python)\1$PYTHON_VER,""

OPTIONS = "Enable thread support" on

HUGE_STACK_SIZE = "Use a larger thread stack" off

UCS4 = "Use UCS4 for unicode support" on
\n
\n
PYMALLOC
  "Use python's internal malloc"
  'on' 
  
\n
IPV6
  "Enable IPv6 support"
  'on' 
  
\n
FPECTL
  "Enable floating point exception handling"
  'off' 
  
\n
.include <bsd.port.pre.mk>

.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

MLINKS
  '='
 
$'

_PYTHON_VERSION'
  '}'
  
python.1
  

.PLIST_SUB
  +=
  

'Open Source Used In Crosswork Optimization Engine 4.0.0  11053'
'IF_DEFAULT' Name.Variable
'='    Operator
'""""    Literal.String.Double
'\n'    Text
'
'.else
'PLIST_SUB' Name.Variable
'+='    Operator
'\t'    Text
'IF_DEFAULT' Name.Variable
'='    Operator
'""@comment ""    Literal.String.Double
'\n'    Text
'
'.endif
'if !defined(WITHOUT_THREADS)
'CFLAGS' Name.Variable
'+='    Operator
'\t'    Text
'-D__wchar_t' Text
'='    Operator
'wchar_t' Text
'\n'    Text
'
'.if defined(WITHOUT_HUGE_STACK_SIZE)
'}
`CFLAGS' Name.Variable
`+=' Operator
`\\'\t' Text
`-DTHREAD_STACK_SIZE' Text
`=' Operator
`0x20000' Text
`\n' Text

`.else\n' Comment.Preproc

`CFLAGS' Name.Variable
`+=' Operator
`\\'\t' Text
`-DTHREAD_STACK_SIZE' Text
`=' Operator
`0x100000' Text
`\n' Text

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

`CONFIGURE_ENV' Name.Variable
`+=' Operator
`\\'\t' Text
`'LDFLAGS' Name.Variable
`=' Operator
`\''\n' Literal.String.Double
`$' Literal.String.Interpol
`'PTHREAD_LIBS' Name.Variable
`'}' Literal.String.Interpol
`\'' Literal.String.Double
`$' Literal.String.Interpol
`'LDFLAGS' Name.Variable
`'}' Literal.String.Interpol
`\'' Literal.String.Double
`\n' Text

`.else\n' Comment.Preproc

`CONFIGURE_ARGS' Name.Variable
`+=' Operator
`\\'\t' Text
`--without-threads' Text
`\n' Text

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

`CONFIGURE_ENV' Name.Variable
`endif

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

'PLIST_SUB' Name.Variable
'+=' Operator
't' Text
'NO_NIS' Name.Variable
'=' Operator
''@comment '' Literal.String.Double
'un' Text

'.else

'PLIST_SUB' Name.Variable
'+=' Operator
't' Text
'NO_NIS' Name.Variable
'=' Operator
'''' Literal.String.Double
'un' Text

'.endif

'un' Text

'.if !defined(WITHOUT_IPV6)

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'' Text
'--enable-ipv6 Text
'un' Text

'.else

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

'.endif

'un' Text
`.if defined(WITH_FPECTL)`

`.endif`

`.if defined(WITH_FPECTL)`

`.endif`

`.if ${OSVERSION} >= 700000`

`.elif ${OSVERSION} >= 600000`

`.else`

`.endif`

`.if ${OSVERSION} >= 700000`

`.elif ${OSVERSION} >= 600000`

`.else`

`.endif`

`.if ${OSVERSION} >= 700000`

`.elif ${OSVERSION} >= 600000`

`.else`

`.endif`
Open Source Used In Crosswork Optimization Engine 4.0.0

pre-patch

un

ut

$'

'MKDIR'

''

$'

'WRKSRC'

''

$'

'SHARED_WRKSRC'

''

/Modules

'un'

'$'

'SED'

''

'-e'

''

"1s:^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"'

'\n'

'tt'

'$'

'PATCH_WRKSRC'

''

'/Tools/scripts/pydoc'

'un'

'$'

'WRKDIR'

''

'/pydoc2.5'

'un'

'$'

'SED'

''

'-e'
"1s:^.*$,.#1$[PREFIX]/bin/$[PYTHON_VERSION],"" Literal.String.Single
'' Text
\n" Literal.String.Escape

'&lt; Text
"$[PATCH_WRKSRC/Name.Variable'
') Literal.String.Interpol
'/Tools/scripts/idle' Text
'' Text
'> Text
'' Text
'"$[WRKDIR/Name.Variable'
') Literal.String.Interpol
'/idle2.5' Text
'un\n' Text
'"$[SED/Name.Variable'
') Literal.String.Interpol
'' Text
'-e Text
'' Text
"1s:^.*$,.#1$[PREFIX]/bin/$[PYTHON_VERSION],"" Literal.String.Single
'' Text
\n" Literal.String.Escape

'&lt; Text
"$[PATCH_WRKSRC/Name.Variable'
') Literal.String.Interpol
'/Lib/smtpd.py' Text
'> Text
'' Text
'"$[WRKDIR/Name.Variable'
') Literal.String.Interpol
'/smtpd2.5.py' Text
'un\n' Text
'"$[REINPLACE_CMD/Name.Variable'
') Literal.String.Interpol
'-e Text
'' Text
\n" Literal.String.Escape
"\n
'${PATCH_WRKSRC}' Name.Variable
'\n\n' Literal.String.Escape

'${REINPLACE_CMD}' Name.Variable
'\n\n' Literal.String.Escape

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' Literal.String_ESCAPE
`''` Text
`'''` Text
`'>>'` Text
`''` Text
`'${'` Literal.String.Interpol
`'WRKSC'` Name.Variable
`'}'` Literal.String.Interpol
`'/Modules/Setup.dist'` Text
`'un'` Text

`.endif
```

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

`'u'` Text
`'${'` Literal.String.Interpol
`'TAR'` Name.Variable
`'}'` Literal.String.Interpol
```
`'C'` Text
`''` Text
`'${'` Literal.String.Interpol
`'WRKSC'` Name.Variable
`'}'` Literal.String.Interpol
```
`'-cf'` Text
```
```
`'-C'` Text
```
```
```
`'|' Punctuation
```
```
`'${'` Literal.String.Interpol
`'TAR'` Name.Variable
`'}'` Literal.String.Interpol
```
`'-CF'` Text
```
```
```
`'|' Punctuation
```
```
`'${'` Literal.String.Interpol
`'SHARED_WRKSC'` Name.Variable
`'}'` Literal.String.Interpol
```
`'xf'` Text
```
```
```
```
'.' Text
'\n' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
' -sf' Text
' ' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
' ' Text
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib' Text
'\n' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
'-e' Text
' ' Text
"s,^\(LDLIBRARY=\).*$$,\1libpython$$(VERSION).so,\" Literal.String.Single
' ' Text
'\n' Literal.String.Escape

'\n' Text
' -e' Text
' ' Text
"s,^\(BLDLIBRARY=\).*$$,\1-L. -lpython$$(VERSION),\" Literal.String.Single
' ' Text
'\n' Literal.String.Escape

'\n' Text
' -e' Text
' ' Text
"s,^\(CFLAGSFORSHARED=\).*$$,\1$$(CCSHARED),\" Literal.String.Single
' ' Text
'\n' Literal.String.Escape

'\n' Text
' -e' Text
' ' Text
"s,^\(Makefile Modules/config.c:.*\)Makefile.pre,\1,'" Literal.String.Single
' ' Text
'\n' Literal.String.Escape
```

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Open Source Used In Crosswork Optimization Engine 4.0.0  11068

```

 There is no visible content in the image.

```
'python'  Text
''  Text
'

pre-su-install:  Operator
un'  Text

.for platform in ${PLATFORMS}\n'  Comment.Preproc

'\t'  Text
'

for file in IN.py regen\n'  Comment.Preproc

'\t'  Text
'

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

'w'  Text
'|'  Operator
'|'  Operator
' '  Text
'\-f'  Text
' '  Text
'${'  Literal.String.Interpol
'WRKSRC'  Name.Variable
'|'  Literal.String.Interpol
'|.without_own_sha'  Text
' '  Text
'|'  Operator
' '  Text
'&&'  Operator
' '  Text
'\n'  Literal.String.Escape

'\t\t'  Text
'${'  Literal.String.Interpol
'GREP'  Name.Variable
'|'  Literal.String.Interpol
' '  Text
'\-v'  Text
' '  Text
"lib-dynload/_sha"  Literal.String.Single
' '  Text
'${'  Literal.String.Interpol
'PLIST'  Name.Variable
'|'  Literal.String.Interpol
' '  Text
'|'  Text
'>'  Text
' '  Text
'${'  Literal.String.Interpol
'PLIST'  Name.Variable
'|'  Literal.String.Interpol
'|.tmp'  Text
' '  Text
'&&'  Operator
' '  Text
'\n'  Literal.String.Escape

'\t\t'  Text
'${'  Literal.String.Interpol
'CAT'  Name.Variable
'|'  Literal.String.Interpol
' '  Text
`$(` Literal.String.Interpol
`PLIST` Name.Variable
`)` Literal.String.Interpol
`.tmp` Text
`>` Text
`$(` Literal.String.Interpol
`PLIST` Name.Variable
`)` Literal.String.Interpol
`)` Operator
`||` Operator
`$(` Literal.String.Interpol
`TRUE` Name.Variable
`)` Literal.String.Interpol
`un\n` Text

`post-install` Name.Function
`:` Operator
`un` Text

`\t## install config providers\n` Comment

`\t` Text
`$(` Literal.String.Interpol
`INSTALL_SCRIPT` Name.Variable
`)` Literal.String.Interpol
`$(` Literal.String.Interpol
`WRKDIR` Name.Variable
`)` Literal.String.Interpol
`/` Text
`$(` Literal.String.Interpol
`PYTHON_VERSION` Name.Variable
`)` Literal.String.Interpol
`-config` Text
`$(` Literal.String.Interpol
`PREFIX` Name.Variable
`)` Literal.String.Interpol
`/bin` Text
`un\t` Text
`$(` Literal.String.Interpol
`INSTALL_SCRIPT` Name.Variable
`)` Literal.String.Interpol
`$(` Literal.String.Interpol
`PLIST` Name.Variable
`)` Literal.String.Interpol
`)` Literal.String.Interpol
`)` Operator
`||` Operator
`$(` Literal.String.Interpol
`TRUE` Name.Variable
`)` Literal.String.Interpol
`un\n` Text

---

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```
"\\n" Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so.1' Text
"\\n" Literal.String.Escape

"\\n" Text
'lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so' Text
'\n' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'}' Literal.String.Interpol
'-sf' Text
"\\n" Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/lib/lib' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.so' Text
'\n' Text
'${' Literal.String.Interpol
'PREFIX_LIBDIR' Name.Variable
'}' Literal.String.Interpol
'/config' Text
'\n' Text
'${' Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}' Literal.String.Interpol
"\\n" Literal.String.Escape
```
"@ additional files installing by ports

"INSTALL_SCRIPT" 

"WRKDIR" 

"pydoc2.5" 

"idle2.5" 

"smtpd2.5.py" 

"$" 

"WRKDIR" 

"smtpd2.5.py"
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```
`
'' Text
'$$' Name.Variable
'TARGET' Text
'' Text
'$$' Name.Variable
'T' Text
':' Punctuation
'' Text
'\\n' Literal.String.Escape

'\t' Text
'done' Keyword
'\n' Text

'.endif\n' Comment.Preproc

'\n' Text

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

'\t' Text
'@' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}' Literal.String.Interpol
'\n\t' Text
'@cd' Text
'' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
':' Punctuation
'' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'}' Literal.String.Interpol
'' Text
'-cf' Text
':' Text
':' Text
':' Text
'Tools' Text
'' Text
'' Punctuation
cd ${TOOLSDIR};

TAR -xf -

@${MKDIR} ${DEMODIR} @cd ${PYTHON_WRKSRC}/Demo;

TAR -cf - *

@${MARKDIR} ${DEMODIR} @cd ${PYTHON_WRKSRC}/Demo

'}
1.1413 snappy-java 1.1.7.3

1.1413.1 Available under license:

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== Contributors ==
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 * Providing benchmark suite
* Alec Wysoker
 * Performance and memory usage improvement

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* /opt/cola/permits/1347859462_1655734791.7216063/0/spring-aop-5-3-21-sources-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
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* /opt/cola/permits/1347859462_1655734791.7216063/0/spring-aop-5-3-21-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1347859462_1655734791.7216063/0/spring-aop-5-3-21-sources-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
1.1418 idna 2.8

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* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-
375dc46/LICENSE.rst
No license file was found, but licenses were detected in source scan.

---

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

```python
import io, sys
from setuptools import setup

def main():

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

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

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            '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/1110810307_1606855956.290/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.1419 termcolor 1.1.0
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1.1420 jboss-logging 3.4.3.Final

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1.1421 python-requests 2.28.1

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

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

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

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * Copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jversion.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 * 
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */
Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jaricom.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemdos.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdswitch.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrtarga.c

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

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrrle.c

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

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jddctmgr.c
No license file was found, but licenses were detected in source scan.
/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdin stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdppm.c

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

/*
 * jdmerge.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jsample.c and jdcotor.c;
 * read those files first to understand what's going on.
 *
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \( R = Y + K1 * Cr \)
* \( G = Y + K2 * Cb + K3 * Cr \)
* \( B = Y + K4 * Cb \)
* only the \( Y \) term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* This file currently provides implementations for the following cases:
* \( YCbCr \Rightarrow RGB \) color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdc disproportionate scaling and color conversion.
* Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/jdmerge.c

/ * cderror.h
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/cderror.h

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegint.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdbmp.c
No license file was found, but licenses were detected in source scan.

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

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

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

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
* #define HAVE_UNSIGNED_CHAR
* #define HAVE_UNSIGNED_SHORT
*/

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
* #define void char */

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

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

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

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

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

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

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

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

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

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
    #ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
        typedef unsigned char boolean;
    #endif
    #define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif
/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

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

#ifdef JPEG_CJPEG_DJPEG

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

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

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

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER
/* By default, we open image files with fopen(""rb") or fopen(""wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

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

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first
 * introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier,
 * and the jpeg library decides it needs a temporary file, it will abort,
 * printing error messages about requiring System 7. (If no temporary files

* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
* FSpDelete  ->  HDelete
* FSpGetFInfo ->  HGetFInfo
* FSpCreate  ->  HCreate
* FSpOpenDF  ->  HOpen  *** Note: not HOpenDF ***
* FSMakeFSSpec ->  (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmac.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
*/
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctfst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
*/
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcparam.c
No license file was found, but licenses were detected in source scan.

/**
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

This file contains a floating-point implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/
Open Source Used In Crosswork Optimization Engine 4.0.0 11220

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemname.c
No license file was found, but licenses were detected in source scan.

/ *
* jdtrans.c *
* 
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdtrans.c
No license file was found, but licenses were detected in source scan.

/ *
* djpeg.c *
* 
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/
The Independent JPEG Group's JPEG software

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

README for release 8c of 16-Jan-2011

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

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

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

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal documentation:

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

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

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

OVERVIEW
========

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

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

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

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

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

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

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

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

In plain English:

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

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

This software is copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

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

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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

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

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
==========

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/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...

Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

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

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


IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in a contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of the document is Revision 3.

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. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/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 http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

===================
The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v8c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsr8c.zip.


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

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

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

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

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

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

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

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

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

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.
FILE FORMAT WARS

The ISO JPEG standards committee actually promotes different formats like
"JPEG 2000" or "JPEG XR" which are incompatible with original DCT-based
JPEG and which are based on faulty technologies. IJG therefore does not
and will not support such momentary mistakes (see REFERENCES).
We have little or no sympathy for the promotion of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

TO DO

Version 8 is the first release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@uc.ag.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/README
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * pool-based allocation and freeing of memory;
 * policy decisions about how to divide available memory among the
 * virtual arrays;
 * control logic for swapping virtual arrays between main memory and
 * backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: N x N
* (N=1...16), 2N x N, and N x 2N (N=1...8) pixels for one 8x8 input DCT block.
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an N x N point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
  * yielding significant computational savings and results at least
  * as good as common bilinear (averaging) spatial downsampling.

  * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
  * lower frequencies and higher frequencies assumed to be zero.
  * It turns out that the computational effort is similar to the 8x8 IDCT
  * regarding the output size.
  * Furthermore, the scaling and descaling is the same for all IDCT sizes.

  * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  * since there would be too many additional constants to pre-calculate.

*/

Found in path(s):
  * /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctint.c

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

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

Found in path(s):
  * /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrjpgcom.c

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

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
No license file was found, but licenses were detected in source scan.

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

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

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

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

/*
 * transupp.h
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrppm.c

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

IJG JPEG LIBRARY:  FILE LIST

Copyright (C) 1994-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

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

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.
Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

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

jcapiMin.c Application program interface: core routines for compression.
jcpapiStd.c Application program interface: standard compression.
jdpapiMin.c Application program interface: core routines for decompression.
jdpapiStd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jpapi.r Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmaint.c Main buffer controller (preprocessor => JPEG compressor).
jcprepcr.c Preprocessor buffer controller.
jccoefr.c Buffer controller for DCT coefficient buffer.
jcappa.c Color space conversion.
jcsubsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

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

Support files for both compression and decompression:

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

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

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.
CJpeg/DJpeg/Jpegtran

Include files:

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

C source code files:

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

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rddppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrdbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrle.c Utah RLE file output.
wrclass.c Targa file output.

RDJPGCOM/WRJPGCOM

C source code files:

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

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

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

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

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

configure	Unix shell script to perform automatic configuration.
configure.ac	Source file for use with Autoconf to generate configure.
lttmain.sh	Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
install-sh	Install shell script for those Unix systems lacking one.
Makefile.in	Makefile input for configure.
Makefile.am	Source file for use with Automake to generate Makefile.in.
cckconfig.c	Program to generate jconfig.h on non-Unix systems.
jconfig.txt	Template for making jconfig.h by hand.
mak*.*	Sample makefiles for particular systems.
jconfig.*	Sample jconfig.h for particular systems.
libjpeg.map	Script to generate shared library with versioned symbols.
aclocal.m4	M4 macro definitions for use with Autoconf.
anis2knr.c	De-ANSIfier for pre-ANSI C compilers (courtesy of
L. Peter Deutsch and Aladdin Enterprises).

test*.*	Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2002-2008 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

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

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

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

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library.
We feel that lossless JPEG is better handled by a separate library.

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

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

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

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

*** Portability issues ***

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

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

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

*** System overview ***

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

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

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

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

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

The decompressor library contains the following main elements:

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

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also
provide gamma adjustment [ currently it does not ].

* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

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

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

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

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

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".
We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

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

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

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

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

*** Overall control structure ***

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

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.
   The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

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

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

Each buffer controller sees the world as follows:

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

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

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

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

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

*** Compression object structure ***

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

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

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

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

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

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

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

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

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

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

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

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

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

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

*** Decompression object structure ***

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

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

As before, this diagram also represents typical control flow. The objects shown are:

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

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

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

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

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

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

* Color conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

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

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

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

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

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

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

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

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

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

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

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

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

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

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

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

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

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.
With these conventions, JSAMPLE values can be assumed to be \( \geq 0 \). This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from \(-128..127\) is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to \(0..255\). (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

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

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

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

In general, a specific sample value is accessed by code such as

\[
\text{GETJSAMPLE(image[colorcomponent][row][col])}
\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by \(N\) consecutive JSAMPLE values, and an image row is an array of \((\text{# of color components}) \times \text{(image width)})\) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)
Arrays of DCT-coefficient values use the following data structure:

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

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

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

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

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

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

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.
This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

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

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

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

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

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

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

*** Memory manager services ***

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

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

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

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

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

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

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

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

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.
In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

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

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

*** Memory manager internal structure ***

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

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available: estimate available memory
- jpeg_open_backing_store: create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_openBackingStore is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

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

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

*** Implications of DNL marker ***

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

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

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

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

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

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

We currently do not support DNL because of these problems.

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

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

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/structure.txt
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/
/*
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 * This code contributed by James Arthur Boucher.
 */

/* Copyright (C) 1989, 2000 Aladdin Enterprises. All rights reserved. */
/*
ansi2knr is distributed in the hope that it will be useful, but WITHOUT ANY
WARRANTY. No author or distributor accepts responsibility to anyone for the
consequences of using it or for whether it serves any particular purpose or
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things, the copyright notice and this notice must be preserved on all
copies.

We explicitly state here what we believe is already implied by the GPL: if
the ansi2knr program is distributed as a separate set of sources and a
separate executable file which are aggregated on a storage medium together
with another program, this in itself does not bring the other program under
the GPL, nor does the mere fact that such a program or the procedures for constructing it invoke the ansi2knr executable bring any other part of the program under the GPL.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-8cjpeg-8c/ansi2knr.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-8cjpeg-8c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in GIF format.
* NOTE: to avoid entanglements with Unisys' patent on LZW compression.
* the ability to read GIF files has been removed from the IJG distribution.
* Sorry about that.
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmaster.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

(Continued on next page)

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

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

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

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using one of the supplied jconfig and makefile files
by hand
Building the software
Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems

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

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

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

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

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

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

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

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

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

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

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  ```
  ./configure CFLAGS='-O2'
  ```
  if you want to compile without debugging support.
* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

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

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

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

If you have one of these systems, you can just use the provided configuration files:

Makefile	jconfig file	System and/or compiler
makefile.manx	jconfig.manx	Amiga, Manx Aztec C
makefile.sas	jconfig.sas	Amiga, SAS C
makeproj.mac	jconfig.mac	Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st	jconfig.st	Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc	jconfig.bcc	MS-DOS or OS/2, Borland C
makefile.dj	jconfig.dj	MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mj	jconfig.mj	Microsoft C (16-bit only)
makefile.wat	jconfig.wat	Windows NT, Watcom C
makefile.vc	jconfig.vc	Windows NT/95, MS Visual C++
make*.vc6	jconfig.vc	Windows NT/95, MS Visual C++ 6
make*.v10	jconfig.vc	Windows NT/95, MS Visual C++ 2010 (v10)
makefile.mms	jconfig.mms	Digital VMS, with MMS software
makefile.vms	jconfig.vms	Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

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

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

Second, select a makefile and copy it to Makefile (or whatever your system
uses as the standard makefile name). The most generic makefiles we provide
are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

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

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

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

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

These programs can use a Unix-like command line style which supports
redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
The simpler "two file" command line style is just

cjpeg inputfile outputfile

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

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

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

Selecting a memory manager

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

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

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

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

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

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

* jmemmac.c Custom version for Apple Macintosh; see the system-specific
  notes for Macintosh for more info.
To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

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

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

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

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

Here are some things that could go wrong:

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

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

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

If you don't have a getenv() library routine, define NO_GETENV.
Also see the system-specific hints, below.

TESTING THE SOFTWARE

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

- testorig.jpg: Starting point for the djpeg tests.
- testimg.ppm: The output of djpeg testorig.jpg
- testimg.bmp: The output of djpeg -bmp -colors 256 testorig.jpg
- testimg.jpg: The output of cjpeg testimg.ppm
- testimgp.jpg: Progressive-mode equivalent of testorig.jpg
- testimgp.jpg: The output of cjpeg -progressive -optimize testimg.ppm

(The first- and second-generation .jpg files aren't identical since JPEG is lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

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

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

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t.

Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

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

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

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

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

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

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

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

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

Progress monitor:

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

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. 
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 12-bit-deep pixel data:

The JPEG standard allows either 8-bit or 12-bit data precision. (For color, this means 8 or 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 12-bit operation. To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle 12-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 12-bit support does not work on 16-bit-int machines.

Note that a 12-bit version will not read 8-bit JPEG files, nor vice versa; so you'll want to keep around a regular 8-bit compilation as well. (Run-time selection of data depth, to allow a single copy that does both, is possible but would probably slow things down considerably; it's very low on our to-do list.)

The PPM reader (rdppm.c) can read 12-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to either maxval=255 or maxval=4095 as appropriate for the cjpeg bit depth.
The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval 4095, when compiled with BITS_IN_JSAMPLE=12. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note that a 12-bit version of cjpeg always runs in "-optimize" mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
==============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in
jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@uc.ag so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@uc.ag. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.
Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the
lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h'
dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE
and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and
'test' makefile entries then you will have to fiddle with the syntax a bit
and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly.
A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory
manager, with temporary files being created on the device named by
"JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st
to cjpeprj, djpeprj, jpegtran.prj, and libjpeg.prj respectively. The
project files should work as-is with Pure C. For Turbo C, change library
filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj
selects jmempmansi.c as the recommended memory manager. You'll probably want to
adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K
less than your normal free memory. Put "#define DEFAULT_MAX_MEM mnnn" into
jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the
compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points: 1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from http://www.pobox.com/~jsam. 2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.) NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout.
This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.
MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.
MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$<RFILE> : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient
tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-O1 or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it "int" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not int, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(ActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_XXX macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and
jdatadst.c don't work if you open a file in your application and then pass
the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c
part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to
attach suitable linkage keywords to the exported routine names. Similarly,
you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers
are declared in a way that lets application routines be called back through
the function pointers. These macros are in jmorecfg.h. Typical definitions
for a 16-bit DLL are:
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \ 
  type (_far _pascal *methodname) arglist
For a 32-bit DLL you may want something like
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

- -Ot -Og
- -Ot -Op
- -Ot -Om

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [ ... ] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in DevStudio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vc setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using DevStudio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app\Release` to an appropriate location on your path.

Microsoft Windows, Microsoft Visual C++ 2010 Developer Studio (v10):

We include makefiles that should work as project files in Visual Studio 2010 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vc setup-v10
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   (If you are using Visual Studio more recent than 2010 (v10), you'll probably get a message saying that the project files are being updated.)
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app\Release` to an appropriate location on your path.

Note:
There seems to be an optimization bug in the compiler which causes the self-test to fail with the color quantization option.
We have disabled optimization for the file jquant2.c in the library project file which causes the self-test to pass properly.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the...
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 */
/* Copyright (C) 1994-1996, Thomas G. Lane. 
* This file is part of the Independent JPEG Group's software. 
* For conditions of distribution and use, see the accompanying README file. 
*/

* This file contains the forward-DCT management logic. 
* This code selects a particular DCT implementation to be used, 
* and it performs related housekeeping chores including coefficient 
* quantization. 
*/

Found in path(s): 
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcdctmgr.c 
No license file was found, but licenses were detected in source scan.

/*/ 

* jmemansi.c 
*/

* Copyright (C) 1992-1996, Thomas G. Lane. 
* This file is part of the Independent JPEG Group's software. 
* For conditions of distribution and use, see the accompanying README file. 
* 
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation 
* assumes that you have the ANSI-standard library routine tmpfile(). 
* Also, the problem of determining the amount of memory available 
* is shoved onto the user. 
*/

Found in path(s): 
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemansi.c 
No license file was found, but licenses were detected in source scan.

/*/ 

* cdjpeg.c 
*/

* Copyright (C) 1991-1997, Thomas G. Lane. 
* This file is part of the Independent JPEG Group's software. 
* For conditions of distribution and use, see the accompanying README file. 
* 
* This file contains common support routines used by the IJG application 
* programs (cjpeg, djpeg, jpegtran). 
*/

Found in path(s): 
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.c 
No license file was found, but licenses were detected in source scan.

/*/
* jchuff.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jchuff.c

No license file was found, but licenses were detected in source scan.

/ *
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jerror.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2010, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

Data formats

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each
pixel having the same number of "component" or "sample" values (color
channels). You must specify how many components there are and the colorspace
interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a
"data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There’s no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
/* Make optional parameter settings here */
jpeg_set_defaults(&cinfo);
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1];/* pointer to a single row */
int row_stride;/* physical row width in buffer */

row_stride = image_width * 3;/* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination.

jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don’t forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won’t. Ditto for the error handler structure.

Typical code:
8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while
to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far.
in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most
critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
--------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsapce(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

```c
jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
```
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```c
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
```
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
```
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
```
Set default quantization tables with linear q_scale_factor[] values (see below).

```c
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
```
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535.
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like “#if JPEG_LIB_VERSION >= 61” is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

int block_size
Set DCT block size. All N from 1 to 16 are possible. Default is 8 (baseline format). Larger values produce higher compression, smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

**J_COLOR_SPACE** jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value
matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal
smoothing to 100 for maximum smoothing. Consult jcsample.c for
details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace()
set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes
the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise.
density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating
square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace()
set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change
the default settings at all --- the default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.
int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width	Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```c
int component_id
```
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

```c
int h_samp_factor
int v_samp_factor
```
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

```c
int quant_tbl_no
```
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

```c
int dc_tbl_no
int ac_tbl_no
```
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

```c
int component_index
```
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.
boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:
J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate upsampling. Default is TRUE. For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look “fuzzy” with smoothing, “blocky” without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

<table>
<thead>
<tr>
<th>RGB =&gt; YCbCr</th>
<th>YCbCr =&gt; GRAYSCALE</th>
<th>CMYK =&gt; YCCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB =&gt; RGB</td>
<td>GRAYSCALE =&gt; GRAYSCALE</td>
<td>CMYK =&gt; CMYK</td>
</tr>
<tr>
<td>YCbCr =&gt; CMYK</td>
<td>YCCK =&gt; YCCK</td>
<td>UNKNOWN =&gt; UNKNOWN</td>
</tr>
</tbody>
</table>

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colors() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and...
jpeg_color_space to JCS_YCbCr; use JCS_UNUNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorscheme(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => GRAYSCALE
YCbCr => RGB
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.
Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

    JOCTET * next_output_byte; /* => next byte to write in buffer */
    size_t free_in_buffer;      /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

    init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:
init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends
operation and returns to its caller. The surrounding application is
responsible for emptying or refilling the work buffer before calling the
JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns
FALSE; typically it will not do anything else. This will cause the
compressor to return to the caller of jpeg_write_scanlines(), with the return
value indicating that not all the supplied scanlines have been accepted.
The application must make more room in the output buffer, adjust the output
buffer pointer/count appropriately, and then call jpeg_write_scanlines()
again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping
point (usually the start of the current MCU); it will regenerate some output
data when restarted. Therefore, although empty_output_buffer() is only
called when the buffer is filled, you should NOT write out the entire buffer
after a suspension. Write only the data up to the current position of
next_output_byte/free_in_buffer. The data beyond that point will be
regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential
for efficiency; you don't want the compressor to suspend often. (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required
more data than would fit in the buffer.) We recommend a buffer of at least
several Kbytes. You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress
more data.

The compressor does not allow suspension while it is trying to write JPEG
markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free
  space in the output buffer to hold the header markers (typically 600 or
  so bytes). The recommended buffer size is bigger than this anyway, so
  this is not a problem as long as you start with an empty buffer. However,
  this restriction might catch you if you insert large special markers, such
  as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the
  output buffer to emit any buffered data and the final EOI marker. In the
  current implementation, half a dozen bytes should suffice for this, but
  for safety's sake we recommend ensuring that at least 100 bytes are free
  before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend.
This means you cannot use suspension with multi-pass operating modes, namely
Huffman code optimization and multiple-scan output. Those modes write the
whole file during jpeg_finish_compress(), which will certainly result in
buffer overrun. (Note that this restriction applies only to compression,
not decompression. The decompressor supports input suspension in all of its
operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply
returns FALSE (except perhaps during error recovery, as discussed below).
This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* `jpeg_read_header()` will return `JPEG_SUSPENDED`.
* `jpeg_start_decompress()` will return `FALSE`, rather than its usual `TRUE`.
* `jpeg_read_scanlines()` will return the number of scanlines already completed (possibly 0).
* `jpeg_finish_decompress()` will return `FALSE`, rather than its usual `TRUE`.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte`/`bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.
Progressive JPEG support

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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.)
When scan_info is not NULL, the compression library will store DCT’d data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here “multi-scan” means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
```
for (all scanlines in image) {
    jpeg_read_scanlines()
    display scanlines
}
jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it’s best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library’s output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can “get ahead” of the output processing but is not allowed to “fall behind”. You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will...
wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
    do {
        absorb any waiting input by calling jpeg_consume_input()
        final_pass = jpeg_input_complete(&cinfo);
        adjust output decompression parameters if required
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
    } while (! final_pass);
```
rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
    for (;;) {
        absorb any waiting input by calling jpeg_consume_input()
```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
...
jpeg_finish_output()
if (jpeg_input_complete(&cinfo) &&
    cinfo.input_scan_number == cinfo.output_scan_number)
    break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these
routines:
* jpeg_start_output() performs input only if you request 2-pass quantization
and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it
was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan,
up to the end of the file or the SOS marker that begins another scan.
(But it reads no input if jpeg_consume_input() has already reached the
end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can
suspend if the end hasn't already been reached (as can be tested by
calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress()
all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data
and repeat the call. Applications that use non-suspending data sources need
not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very
limited changes of parameters. ONLY THE FOLLOWING parameter changes are
allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
For example, one could use a fast DCT method for early scans, changing
to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
of course this has no impact if not using color quantization. Typically
one would use ordered dither for initial passes, then switch to
Floyd-Steinberg dither for the final pass. Caution: changing dither mode
can cause more memory to be allocated by the library. Although the amount
of memory involved is not large (a scanline or so), it may cause the
initial max_memory_to_use specification to be exceeded, which in the worst
case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image.
During the first DC-only scan, block smoothing provides a very "fuzzy" look
instead of the very "blocky" look seen without it; which is better seems a
matter of personal taste. But block smoothing is nearly always a win
during later stages, especially when decoding a successive-approximation
image: smoothing helps to hide the slight blockiness that otherwise shows
up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
You *cannot* change between full-color and quantized output (because that
would alter the required I/O buffer sizes), but you can change which
quantization method is used.

When generating color-quantized output, changing quantization method is a
very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap.
Open Source Used In Crosswork Optimization Engine 4.0.0

During jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the
Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the
header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
constant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
--------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.
If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized — expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers.

(Note: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.)

For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't
forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.
A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
---------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsapce() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[
cinfo->comp_info[i].width_in_blocks*DCTSIZE \text{ samples per row} \\
cinfo->comp_info[i].height_in_blocks*DCTSIZE \text{ rows in image}
\]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

<table>
<thead>
<tr>
<th>Component</th>
<th>h_samp_factor</th>
<th>v_samp_factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Cb</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cr</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, 
downsampling = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.
Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.
You must deal with the color space and sampling factors present in the
incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is
the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless
transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a
multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do
jpeg_read_header() as usual. But instead of calling jpeg_start_decompress()
and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the
entire image into a set of virtual coefficient-block arrays, one array per
component. The return value is a pointer to an array of virtual-array
Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.
The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress(). jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don’t get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don’t recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don’t pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mngr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mngr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
------------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management
-------------------

Open Source Used In Crosswork Optimization Engine 4.0.0 11346
This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)
The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables.

You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.

You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.
You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.
The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg’s select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be
released until you destroy the JPEG object. This is only an issue if you
save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large
images. The most memory-intensive case is decompression with two-pass color
quantization, or single-pass quantization to an externally supplied color
map. This requires a 128Kb color lookup table plus strip buffers amounting
to about 40 bytes per column for typical sampling ratios (eg, about 25600
bytes for a 640-pixel-wide image). You may not be able to process wide
images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model
compiler, such as DJGPP or Watcom C. We highly recommend flat model if you
can use it; the JPEG library is significantly faster in flat model.

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* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*/  
  * ckconfig.c  
  *  
  * Copyright (C) 1991-1994, Thomas G. Lane.  
  * This file is part of the Independent JPEG Group's software.  
  * For conditions of distribution and use, see the accompanying README file.  
  */

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* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/ckconfig.c
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.SQLite Query:  

/*  
  * jccoefct.c  
  *  
  * Copyright (C) 1994-1997, Thomas G. Lane.  
  * This file is part of the Independent JPEG Group's software.  
  * For conditions of distribution and use, see the accompanying README file.  
  *  
  * This file contains the coefficient buffer controller for compression.  
  * This controller is the top level of the JPEG compressor proper.  
  * The coefficient buffer lies between forward-DCT and entropy encoding steps.  
  */

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* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccoefct.c
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ippines://
jcarith.c

Developed 1997-2009 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains portable arithmetic entropy encoding routines for JPEG

Both sequential and progressive modes are supported in this single module.
Suspension is not currently supported in this module.

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jcomapi.c

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For conditions of distribution and use, see the accompanying README file.

This file contains application interface routines that are used for both
compression and decompression.

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jfdctint.c

Copyright (C) 1991-1996, Thomas G. Lane.
Modification developed 2003-2009 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains a slow-but-accurate integer implementation of the
forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
on each column. Direct algorithms are also available, but they are
much more complex and seem not to be any faster when reduced to code.
This implementation is based on an algorithm described in

The primary algorithm described there uses 11 multiplies and 29 adds.
We use their alternate method with 12 multiplies and 32 adds.
The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

We also provide FDCT routines with various input sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: N\times N (N = 1...16), 2N\times N, and Nx2N (N = 1...8) pixels for one 8\times 8 output DCT block.

For N<8 we fill the remaining block coefficients with zero.
For N>8 we apply a partial N-point FDCT on the input samples, computing just the lower 8 frequency coefficients and discarding the rest.

We must scale the output coefficients of the N-point FDCT appropriately to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling is folded into the constant multipliers (pass 2) and/or final/initial shifting.

CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.

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No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

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* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant1.c
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/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.  *
* There is no trace of the LZW algorithm in this file.  *
**************************************************************************
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream. */

/* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
/ opt/ cola/ permits/161014486_1646171445.16/0/jpeg-8c- zip/jpeg-8c/wrgif.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it’s important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards” revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see
Block comments should be laid out thusly:

```
/*
*  Block comments in this style.
*/
```

We indent statements in K&R style, e.g.,
```
if (test) {
    then-part;
} else {
    else-part;
}
```
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
```
multi_word_name (not multiWordName).
```
Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as
```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep
compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/coderules.txt
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/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG compressor proper; it holds downsampled data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmainct.c
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/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

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/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

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/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (j dctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

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/*
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmarker.c
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/*
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
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*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant2.c
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/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
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 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcinit.c
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/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jinclude.h
No license file was found, but licenses were detected in source scan.
/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
 * advised to improve this code.
 *
 * A simple input-smoothing capability is provided. This is mainly intended
 * for cleaning up color-dithered GIF input files (if you find it inadequate,
 * we suggest using an external filtering program such as pnmconvol). When
 * enabled, each input pixel P is replaced by a weighted sum of itself and its
 * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
 * where SF = (smoothing_factor / 1024).
 * Currently, smoothing is only supported for 2h2v sampling factors.
 */

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/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 *   each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 ** implied warranty.
 */

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 * /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcsample.c
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/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything, but you'd better have lots of main memory (or virtual memory) if you want to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemnobs.c
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/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input processing (marker reading and coefficient decoding). The actual input reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdinput.c
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/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup, and inter-pass control (determining the number of passes and the work to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmaster.c
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/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdjpgcom.c

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/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdatadst.c

1.1430 kafka-python 2.0.2
1.1430.1 Available under license:

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1.1431 netty-resolver-dns 4.1.77.Final

1.1431.1 Available under license:

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* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCacheAdapter.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/Cache.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/Cache.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1- jar/io/netty/resolver/dns/DirContextUtils.java
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jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/cola/permits/1345397390_1655337729.8338208/0/netty-resolver-dns-4-1-77-final-sources-1-
jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.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

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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

------

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

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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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.

1.1433 snappy 1.1.9-r1
1.1433.1 Available under license:

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1.1434 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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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
jar/io/netty/handler/codec/socks/InitRequestDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
jar/io/netty/handler/codec/socks/CmdRequest.java
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jar/io/netty/handler/codec/socksx/SocksMessage.java
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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/socks/UnknownSocksResponse.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/socks/SocksAuthRequestDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
jar/io/netty/handler/codec/socks/package-info.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
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jar/io/netty/handler/codec/socks/SocksInitResponse.java
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jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
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jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
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jar/io/netty/handler/codec/socks/SocksResponse.java
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jar/io/netty/handler/codec/socksx/v5/package-info.java
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jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
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jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdStatus.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/codec/socks/SocksCmdStatus.java
1.1435 hk2-utils 2.5.0-b42

1.1436 apache-karaf-shell-core 4.2.9

1.1436.1 Available under license:

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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

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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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
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1.1441 jetty-util-ajax 9.4.28.v20200408

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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

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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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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

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1.1442 cds-access-api 2.0.6

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1.1443 derbyclient 10.14.2.0

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http://www.itl.nist.gov/div897/ctg/sql_form.htm

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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
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
The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

```
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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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```
WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
```
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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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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1297303028_1648662100.27/0/protobuf-java-3-19-2-sources.jar/com/google/protobuf/MapFieldSchemas.java
* /opt/cola/permits/1297303028_1648662100.27/0/protobuf-java-3-19-2-sources.jar/com/google/protobuf/MapFieldSchemaLite.java
* /opt/cola/permits/1297303028_1648662100.27/0/protobuf-java-3-19-2-sources.jar/com/google/protobuf/JavaType.java
* /opt/cola/permits/1297303028_1648662100.27/0/protobuf-java-3-19-2-sources.jar/com/google/protobuf/ProtocolMessageEnum.java
* /opt/cola/permits/1297303028_1648662100.27/0/protobuf-java-3-19-2-sources.jar/com/google/protobuf/MapEntry.java
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  jar/io/github/classgraph/CloseableByteBuffer.java
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  jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java
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  jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/JarUtils.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/TypeParameter.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/classpath/ClasspathFinder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/MappableInfoList.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/classpath/CallStackReader.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/classpath/ClassLoaderOrder.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/classloaderhandler/PlexusClassWorldsRealmClassLoaderHandler.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ReferenceTypeSignature.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/ModuleRef.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/recycler/Resettable.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/PackageInfo.java
* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/AnnotationParameterValue.java
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* /opt/cola/permits/1264169029_1643762068.26/0/classgraph-4-8-138-sources-jar/io/github/classgraph/utils/LogNode.java
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Version: 0.1.0
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* /opt/cola/permits/1092526355_1602546406.08/0/pax-cdi-web-1-1-3-sources-jar/org/ops4j/pax/cdi/web/impl/CdiServletContainerInitializer.java
* /opt/cola/permits/1092526355_1602546406.08/0/pax-cdi-web-1-1-3-sources-jar/org/ops4j/pax/cdi/web/impl/CdiWebAppDependencyHolder.java

1.1492 mime-support 3.64ubuntu1

1.1492.1 Available under license :
  Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
  Source: git://anonscm.debian.org/collab-maint/mime-support.git

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    Upstream-Name: XZ Utils
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    Lasse Collin <lasse.collin@tukaani.org>
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    Comment:
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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
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* /opt/cola/permits/1351476273_1656128976.8122218/0/netty-resolver-dns-4-1-78-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml
No license file was found, but licenses were detected in source scan.

/*
1.1507 jackson 2.12.6

1.1507.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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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
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All Python releases are Open Source (see http://www.opensource.org for
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<th>Owner</th>
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### 1.1518 python-setuptools 56.0.0

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### 1.1519 python-pip 21.1.1

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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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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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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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=""
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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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins
setuptools distutils --very-verbose

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

***

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- `fastjsonschema_exceptions.py`
  - project: `fastjsonschema` - licensed under BSD-3-Clause
    (https://github.com/horejsek/python-fastjsonschema)
- `extra_validations.py` and `format.py`, `error_reporting.py`
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Additionally the following files are automatically generated by tools provided
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- `__init__.py`
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`fastjsonschema`
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`validate-pyproject`

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1.1530 zlib 1.2.12-r0

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*/opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/ConfiguredType.java
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* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/event/package-info.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/logging/ContextualLogger.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/concurrent/Threads.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/time/Clock.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/time/VectorTimestamp.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/time/package-info.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/memory/MappedMemory.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/concurrent/ReferenceManager.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/serializer/serializers/DefaultSerializers.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/concurrent/Scheduler.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/concurrent/OrderedFuture.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/AtomixIOException.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/memory/Cleaner.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/memory/MemoryAllocator.java
* /opt/cola/permits/1269651949_1644566350.75/0/atomix-utils-3-1-5-sources-jar/io/atomix/utils/misc/TimestampPrinter.java

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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/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java

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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java
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  jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2StreamChannel.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java

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  jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
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  jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2LocalFlowController.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
* /opt/cola/permits/1301917057_1649305377_03/0/netty-codec-http2-4-1-75-final-sources-
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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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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1.1543 j2objc-annotations 1.3
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources.jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources.jar/com/google/j2objc/annotations/ObjectiveCName.java
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources.jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources.jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources.jar/com/google/j2objc/annotations/WeakOuter.java

1.1544 netty-resolver 4.1.52.Final
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* /opt/ws_local/PERMITS_SQL/1093815881_1601014548.38/0/netty-resolver-4-1-52-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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* /opt/cola/permits/1154551203_1618864476.63/0/inotify-0-2-10/inotify-0.2.10/PKG-INFO

1.1546 libpsl 0.21.0-1ubuntu1
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1.1547  rfc3986 2.0.0

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1.1548  python-certifi 2020.11.08

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ca-bundle.crt -- Bundle of CA Root Certificates

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.1549 springfox-schema 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/Accessors.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Annotations.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ResolvedTypes.java
/opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/TypeNameExtractor.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNamingStrategy.java

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/XmlPropertyPlugin.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
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#
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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
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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Open Source Used In Crosswork Optimization Engine 4.0.0 12105
from compatible? (1) compatible?

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1.1560 proto-google-common-protos 2.0.1

1.1560.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1127519988_1611825907.91/0/proto-google-common-protos-2-0-1-jar/google/api/launch_stage.proto

1.1561 contextlib2 0.6.0
1.1561.1 Available under license :

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contextlib2 is a derivative of the contextlib module distributed by the PSF
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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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* 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

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1569 jctools-core 3.0.0

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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpscArrayQueue.java
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
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1.1573 classmate 1.5.1
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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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

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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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

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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

OW2

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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
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1.1577 zipp 3.8.0
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1.1578 error_prone_annotations 2.3.3
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CompatibleWith.java
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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

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* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1150926774_1617721880.98/0/error-prone-annotations-2-3-3-sources-5-jar/com/google/errorprone/annotations/ForOverride.java

1.1579 pax-jms-pool-pooledjms 1.0.7

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* /opt/cola/permits/1092524327_1602547222.09/0/pax-jms-pool-pooledjms-1-0-7-sources-
  jar/org/ops4j/pax/jms/pool/pooledjms/PooledJmsXAPooledConnectionFactoryFactory.java
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  jar/org/ops4j/pax/jms/pool/pooledjms/Activator.java
* /opt/cola/permits/1092524327_1602547222.09/0/pax-jms-pool-pooledjms-1-0-7-sources-
  jar/org/ops4j/pax/jms/pool/pooledjms/PooledJmsPooledConnectionFactoryFactory.java

1.1580 ops4j-base-lang 1.5.1
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1.1581 prometheus-client 0.10.0

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1.1582 zlib 1.2.7

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jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
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* /opt/cola/permits/1351476243_1656128971.0878441/0/netty-codec-dns-4-1-78-final-sources-
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**1.1588 guava 28.2-jre**

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableNetwork.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ForwardingValueGraph.java

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  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/EdgesConnecting.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/MapMaker.java
  */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/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/util/concurrent/Callables.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/Cut.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LocalCache.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
* 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>TODORoskey): support concurrently modified collections?
*<param c the collection for which to return an array of elements
*/

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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/collection/ObjectArrays.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.
*/

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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*/
/
* 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
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 */

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 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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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></b>
 */

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jar/com/google/common/collect/Count.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/RangeSet.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/ListenableFuture.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/ConcurrentUtils.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/HashedWheelTimer.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListenableScheduledExecutor.java
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jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/base/FinalizableReferenceQueue.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/base/Objects.java
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* /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
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/AbstractMultiset.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ForwardingQueue.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ArrayListMultimap.java
* /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
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ForwardingSet.java
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  jar/com/google/common/coll/TreeTraverser.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/coll/CompactLinkedHashSet.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/coll/AbstractMultimap.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/coll/ForwardingImmutableSet.java
  */opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/coll/FilteredEntrySetMultimap.java
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  jar/com/google/common/coll/TransformedIterator.java
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  jar/com/google/common/coll/AllEqualOrdering.java
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  jar/com/google/common/coll/ImmutableEnumMap.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ImmutableTable.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ArrayTable.java
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jar/com/google/common/reflect/Parameter.java
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  * /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/LittleEndianByteArray.java
  * /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/FarmHashFingerprint64.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/common/hash/Funnel.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collect/EmptyContiguousSet.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/cache/LoadingCache.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/base/CommonMatcher.java

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  jar/com/google/common/collect/SortedMultiset.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/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/escape/Escaper.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/base/Stopwatch.java

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* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5.jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Utils.java
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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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http://openjdk.java.net/legal/gplv2+ce.html
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org.ow2.asm:asm-commons
org.ow2.asm:asm

The following artifacts are ASL2 licensed.

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
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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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
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1605 py3-contextlib 21.6.0-r1

1.1605.1 Available under license :

Note: The type hints included in this package come from the typeshed project, and are hence distributed under the Apache License 2.0 rather than under the Python Software License that covers the module implementation and test suite.

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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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19 May, 2009

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1.1612 asm 1.0

1.1613 e2fsprogs 1.45.5 2ubuntu1

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$ (BSD_LIB)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \

Open Source Used In Crosswork Optimization Engine 4.0.0 12481
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs-uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007
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-----------------------------------------------------------------------------

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <ttypo@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <ttypo@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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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org.eclipse.jetty.toolchain:jetty-schemas

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1.1621 yang-common 5.0.7

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1.1623 curl 7.79.1-r0

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1.1631 ptyprocess 0.7.0

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1.1634 apache-felix-webconsole-plugins-memoryusage 1.0.10

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1.1635 pyinotify 0.9.6

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1.1641 aiosignal 1.2.0

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1.1642 snake-yaml 1.28

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Manifest-Version: 1.0
Automatic-Module-Name: org.yaml.snakeyaml
Bnd-LastModified: 1613973356620
Build-Jdk: 11.0.10
Built-By: alex13
Bundle-Description: YAML 1.1 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML
Bundle-SymbolicName: org.yaml.snakeyaml
Bundle-Version: 1.28.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.yaml.snakeyaml;version="1.28",org.yaml.snakeyaml.comments;version="1.28",org.yaml.snakeyaml.composer;version="1.28",org.yaml.snakeyaml.constructor;version="1.28",org.yaml.snakeyaml.emitter;version="1.28",org.yaml.snakeyaml.env;version="1.28",org.yaml.snakeyaml.error;version="1.28",org.yaml.snakeyaml.events;version="1.28",org.yaml.snakeyaml.extensions.compactnotation;version="1.28",org.yaml.snakeyaml.introspector;version="1.28",org.yaml.snakeyaml.nodes;version="1.28",org.yaml.snakeyaml.parser;version="1.28",org.yaml.snakeyaml.reader;version="1.28",org.yaml.snakeyaml.representer;version="1.28",org.yaml.snakeyaml.resolver;version="1.28",org.yaml.snakeyaml.serializer;version="1.28",org.yaml.snakeyaml.tokens;version="1.28",org.yaml.snakeyaml.util;version="1.28"
Import-Package: org.yaml.snakeyaml;version="[1.28,2)”,org.yaml.snakeyaml.comments;version="[1.28,2)”,org.yaml.snakeyaml.composer;version="[1.28,2)”,org.yaml.snakeyaml.emitter;version="[1.28,2)”,org.yaml.snakeyaml.error;version="[1.28,2)”,org.yaml.snakeyaml.events;version="[1.28,2)”,org.yaml.snakeyaml.introspector;version="[1.28,2)”,org.yaml.snakeyaml.nodes;version="[1.28,2)”,org.yaml.snakeyaml.parser;version="[1.28,2)”,org.yaml.snakeyaml.reader;version="[1.28,2)”,org.yaml.snakeyaml.resolver;version="[1.28,2)”,org.yaml.snakeyaml.serializer;version="[1.28,2)”,org.yaml.snakeyaml.tokens;version="[1.28,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.5.0.201709291849
Open Source Used In Crosswork Optimization Engine 4.0.0

Found in path(s):
* /opt/cola/permits/1248307574_1640375818.14/0/snakeyaml-1-28-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1248307574_1640375818.14/0/snakeyaml-1-28-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

1.1643 commons-pool 2.6.2

1.1644 maven-settings 3.6.0
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1.1645 zlib 1.2.5
1.1645.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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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

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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

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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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
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### 1.1647 msgpack 1.0.0

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Upstream-Contact: Yann Collet <Cyan4973@github.com>
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jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1266038420_1643974026.83/0/netty-handler-4-1-53-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
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jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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jar/io/netty/handler/ssl/SslContextBuilder.java
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jar/io/netty/handler/ssl/ApplicationProtocolNames.java
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jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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* /opt/ws_local/PERMITS_SQL/1092525228_1600741070.05/0/pax-jdbc-pool-transx-1.4.4-sources-jar/org/ops4j/pax/jdbc/pool/transx/impl/TransxXaPooledDataSourceFactory.java
1.1671 apache-karaf-services-eventadmin

4.2.9

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# A grammar to describe tree matching patterns.
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# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
  | NAME [Details] [Repeater]
  | '(' Alternatives ')' [Repeater]
  | '[' Alternatives ']
  )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>

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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/json/JacksonModuleRegistrar.java
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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/readers/parameter/ParameterMultiplesReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterMultipleReader.java
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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/readers/operation/OperationParameterHeadersConditionReader.java

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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
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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/plugins/ResolvedMethodParameterEquivalence.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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jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
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  jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
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* Allowing them being read would mean anyone with access to the channel could get them.

Set the `TCP_QUICKACK` option on the socket.
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1.1677 aaa-password-service-api 0.12.1

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jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
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jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
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jar/org/springframework/core/io/ClassRelativeResourceLoader.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyLeakTask.java

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jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
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Metadata-Version: 1.1
Name: gcloud
Version: 0.18.3
Summary: API Client library for Google Cloud
Home-page: https://github.com/GoogleCloudPlatform/gcloud-python
Author: Google Cloud Platform
Author-email: jjg+gcloud-python@google.com
License: Apache 2.0
Description: Google Cloud Python Client

Python idiomatic client for `Google Cloud Platform`_ services.

.. _Google Cloud Platform: https://cloud.google.com/

This client supports the following Google Cloud Platform services:

- `Google Cloud Datastore`_
- `Google Cloud Storage`_
- `Google Cloud Pub/Sub`_
- `Google BigQuery`_
- `Google Cloud Resource Manager`_
- `Google Stackdriver Logging`_
Quick Start
-----------

```
$ pip install --upgrade gcloud
```

Example Applications
---------------------

- `getting-started-python` - A sample and `tutorial` that demonstrates how to build a complete web application using Cloud Datastore, Cloud Storage, and Cloud Pub/Sub and deploy it to Google App Engine or Google Compute Engine.
- `gcloud-python-expenses-demo` - A sample expenses demo using Cloud Datastore and Cloud Storage

Authentication
--------------

With `gcloud-python` we try to make authentication as painless as possible. Check out the `Authentication section` in our documentation to learn more. You may also find the `authentication document` shared by all the `gcloud-*` libraries to be helpful.

Google Cloud Datastore
----------------------

Google `Cloud Datastore` (`Datastore API docs`) is a fully managed, schemaless
database for storing non-relational data. Cloud Datastore automatically scales with your users and supports ACID transactions, high availability of reads and writes, strong consistency for reads and ancestor queries, and eventual consistency for all other queries.

.. _Cloud Datastore: https://cloud.google.com/datastore/docs
.. _Datastore API docs: https://cloud.google.com/datastore/docs/apis/v1beta3/

See the `Cloud Datastore documentation`_ to learn how to interact with the Cloud Datastore using this Client Library.


See the `official Google Cloud Datastore documentation`_ for more details on how to activate Cloud Datastore for your project.

.. _official Google Cloud Datastore documentation: https://cloud.google.com/datastore/docs/activate

.. code:: python

    from gcloud import datastore
    # Create, populate and persist an entity
    entity = datastore.Entity(key=datastore.Key('EntityKind'))
    entity.update(
        'foo': 'bar',
        'baz': 1337,
        'qux': False,
    )
    # Then query for entities
    query = datastore.Query(kind='EntityKind')
    for result in query.fetch():
        print result

Google Cloud Storage
---------------------

Google `Cloud Storage`_ (`Storage API docs`_) allows you to store data on Google infrastructure with very high reliability, performance and availability, and can be used to distribute large data objects to users via direct download.

.. _Cloud Storage: https://cloud.google.com/storage/docs
.. _Storage API docs: https://cloud.google.com/storage/docs/json_api/v1

See the `gcloud-python` API `storage documentation`_ to learn how to connect to Cloud Storage using this Client Library.

You need to create a Google Cloud Storage bucket to use this client library. Follow along with the `official Google Cloud Storage documentation`_ to learn how to create a bucket.

.. _official Google Cloud Storage documentation: https://cloud.google.com/storage/docs/cloud-console#_creatingbuckets

```python
from gcloud import storage
client = storage.Client()
bucket = client.get_bucket('bucket-id-here')
# Then do other things...
blob = bucket.get_blob('remote/path/to/file.txt')
print blob.download_as_string()
blob.upload_from_string('New contents!')
blob2 = bucket.blob('remote/path/storage.txt')
blob2.upload_from_filename(filename='/local/path.txt')
```

Google Cloud Pub/Sub
---------------------

Google `Cloud Pub/Sub`_ (`Pub/Sub API docs`_) is designed to provide reliable, many-to-many, asynchronous messaging between applications. Publisher applications can send messages to a `topic` and other applications can subscribe to that topic to receive the messages. By decoupling senders and receivers, Google Cloud Pub/Sub allows developers to communicate between independently written applications.

.. _Cloud Pub/Sub: https://cloud.google.com/pubsub/docs
.. _Pub/Sub API docs: https://cloud.google.com/pubsub/reference/rest/

See the `gcloud-python` API `Pub/Sub documentation`_ to learn how to connect to Cloud Pub/Sub using this Client Library.


To get started with this API, you'll need to create

```python
from gcloud import pubsub

client = pubsub.Client()
topic = client.topic('topic_name')
topic.create()

topic.publish('this is the message_payload',
```
Google BigQuery

Querying massive datasets can be time consuming and expensive without the right hardware and infrastructure. Google `BigQuery`_ (`BigQuery API docs`_) solves this problem by enabling super-fast, SQL-like queries against append-only tables, using the processing power of Google's infrastructure.

.. _BigQuery: https://cloud.google.com/bigquery/what-is-bigquery
.. _BigQuery API docs: https://cloud.google.com/bigquery/docs/reference/v2/

This package is still being implemented, but it is almost complete!

Load data from CSV

.. code:: python

```python
import csv

from gcloud import bigquery
from gcloud.bigquery import SchemaField

client = bigquery.Client()

dataset = client.dataset('dataset_name')
dataset.create()  # API request

SCHEMA = [
    SchemaField('full_name', 'STRING', mode='required'),
    SchemaField('age', 'INTEGER', mode='required'),
]
table = dataset.table('table_name', SCHEMA)
table.create()

with open('csv_file', 'rb') as readable:
    table.upload_from_file(
        readable, source_format='CSV', skip_leading_rows=1)
```

Perform a synchronous query

.. code:: python

```python
# Perform a synchronous query.
QUERY = (
for row in query.rows:
    print row

See the `gcloud-python` API documentation to learn how to connect to BigQuery using this Client Library.

.. _BigQuery documentation: https://googlecloudplatform.github.io/gcloud-python/stable/bigquery-usage.html

Google Cloud Resource Manager
-------------------------------

The Cloud `Resource Manager` API (Resource Manager API docs) provides methods that you can use to programmatically manage your projects in the Google Cloud Platform.

.. _Resource Manager: https://cloud.google.com/resource-manager/
.. _Resource Manager API docs: https://cloud.google.com/resource-manager/reference/rest/

See the `gcloud-python` API Resource Manager documentation to learn how to manage projects using this Client Library.


Google Stackdriver Logging
--------------------------

`Stackdriver Logging` API (Logging API docs) allows you to store, search, analyze, monitor, and alert on log data and events from Google Cloud Platform.

.. _Stackdriver Logging: https://cloud.google.com/logging/
.. _Logging API docs: https://cloud.google.com/logging/docs/

.. code:: python

    from gcloud import logging
    client = logging.Client()
    logger = client.logger('log_name')
    logger.log_text("A simple entry")  # API call

Example of fetching entries:
.. code:: python

   entries, token = logger.list_entries()
   for entry in entries:
       print entry.payload

See the `gcloud-python` API logging documentation to learn how to connect to Stackdriver Logging using this Client Library.


Contributing
------------

Contributions to this library are always welcome and highly encouraged.

See `CONTRIBUTING` for more information on how to get started.

.. _CONTRIBUTING: https://github.com/GoogleCloudPlatform/gcloud-python/blob/master/CONTRIBUTING.rst

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* /opt/cola/permits/1154768332_161888601.53/0/gcloud-0-18-3-tar-gz/gcloud-0.18.3/gcloud/pubsub/subscription.py
* /opt/cola/permits/1154768332_161888601.53/0/gcloud-0-18-3-tar-gz/gcloud-0.18.3/gcloud/bigquery/test_connection.py
* /opt/cola/permits/1154768332_161888601.53/0/gcloud-0-18-3-tar-gz/gcloud-0.18.3/gcloud/resource_manager/test_client.py
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* /opt/cola/permits/1154768332_161888601.53/0/gcloud-0-18-3-tar-gz/gcloud-0.18.3/gcloud/bigquery/changes.py
* /opt/cola/permits/1154768332_161888601.53/0/gcloud-0-18-3-tar-gz/gcloud-0.18.3/gcloud/resource_manager/connection.py

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1.1694 httpcomponents-client 4.5.6

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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
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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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org.eclipse.jetty.toolchain:jetty-schemas
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1.1696 apache-karaf-deployer-features 4.2.9

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1.1697 gzip 1.10 0ubuntu4.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle
The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons  
org.ow2.asm:asm

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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UNKNOWN_VERSION

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1.1705 jakarta-validation-api 2.0.2

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 *
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 */

Found in path(s):
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
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strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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#
# -- 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_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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\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\155\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\003\1
\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\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\155\166\055\163\141\061\020\060\016\006\003
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\000\000\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 "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
\060\201\312\061\101\306\060\011\006\000\031\125\004\000\060\023\002\125\123
\061\102\077\060\025\006\000\031\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\000\125
\004\013\023\026\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\161\157\162\153\061\072\060\070\006\000
\125\004\013\023\036\050\143\051\040\061\071\071\071\040\012\161\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\060\003\125\004\000\033
\074\126\145\162\151\123\151\147\156\040\031\154\141\163\163\040
\061\104\012\016\142\154\151\143\040\120\162\151\155\141\162\171
\140\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_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\101\306\060\011\006\000\031\125\004\000\060\023\002\125\123
\061\102\077\060\025\006\000\031\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\000\125
\004\013\023\026\145\162\151\123\151\147\156\040\124\162\165

Open Source Used In Crosswork Optimization Engine 4.0.0 13042
\234\336\075\334\154\023\026\331\172\335\044\121\146\030\037\046
\131\015\254\006\010\302\224\321\063\037\360\020\036\065\037\156\033
\310\336\252\156\025\116\124\047\353\70\041\155\032\334\013\343\016
\360\042\304\127\001\130\036\243\107\037\161\354\140\366\155
\224\310\030\071\355\376\102\030\126\337\344\114\111\020\170\116
\001\166\065\143\022\066\335\146\024\70\001\004\066\243\125\150\032
\242\066\011\254\253\041\046\124\006\255\077\312\204\340\254\312
\255\006\035\225\342\370\235\361\340\140\377\302\177\165\053\114
\314\013\336\3720\237\014\352\227\376\076\124\327\232\131\170\033
\074\156\317\240\023\000\032\270\047\241\134\276\147\226\312\240
\305\263\234\335\311\116\253\263\353\060\232\137\243\315\331\256\170
\031\077\043\351\354\333\051\275\255\125\310\033\124\214\143\366
\350\246\352\070\067\022\134\243\051\036\002\331\333\037\073\264
\327\017\126\107\201\025\004\112\257\203\047\321\305\130\210\301
\335\266\252\247\243\030\332\150\252\155\021\121\341\277\145\153
\237\226\166\321\075\002\003\001\000\000\150\006\011\052\206
\110\206\367\015\001\000\000\000\302\000\100\000\253\146
\215\327\263\272\037\232\266\346\125\320\005\361\237\061\121\132
\252\331\252\106\046\017\161\355\245\255\123\126\142\001\017\052
\104\351\376\077\164\013\023\233\273\164\115\033\262\321\137\262
\266\323\210\134\263\237\131\315\332\247\331\140\225\040\237
\301\067\035\141\123\347\260\035\045\221\132\124\246\254\061\120
\256\227\336\135\010\254\270\030\227\200\177\156\162\244\347\151
\023\225\145\037\304\223\375\171\127\004\324\076\117\135\232\166
\236\363\315\147\174\117\145\002\377\221\120\124\163\307\377\066
\367\206\055\035\042\018\161\117\377\021\237\162\200\032\361
\114\010\046\145\342\104\020\036\073\237\343\335\350\012\332\354
\245\040\200\015\050\241\117\176\341\153\317\000\71\037\203\216
\274\070\335\260\056\021\261\153\262\102\314\232\274\371\110\042
\171\112\031\177\262\034\076\040\164\331\152\303\276\362\050\170
\023\126\177\117\155\120\352\033\262\026\127\261\067\146\130\043
\163\334\017\337\12\207\304\035\025\070\024\140\231\243
\113\336\006\226\161\054\362\333\266\037\244\357\077\156
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\063\060\060\060\060\061\032
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
# 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\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\069\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\040\061\071\071\071\040\126\145
\162\151\123\151\117\156\054\040\111\156\143\056\040\004\000\010
\157\162\040\111\165\141\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\103\154\141\163\163\040
\062\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\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\069\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\040\061\071\071\071\040\126\145
\162\151\123\151\117\156\054\040\111\156\143\056\040\004\000\010
\157\162\040\111\165\141\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\103\154\141\163\163\040
\062\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\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\331\120
\133\121
END
CKA_VALUE MULTILINE_OCTAL
\060\020\004\031\060\020\020\003\001\002\020\014\160\313\111\214\137
\230\105\051\347\260\246\331\120\133\121\72\206\015\006\011\052\206
\110\206\367\015\001\001\005\005\000\006\020\132\026\013\060\011
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\132

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

CKACLASS CK_OBJECT_CLASS 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_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

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\370\276\304\143\042\311\125\016\342\213\320\337\131\023\266\317\113\13\13\370\052

END
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\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\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\006\076\006\003\125
\004\13\024\067\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\056\040\142\171\040\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\004\013\023\034\050\143\051\040\061\071\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
Certificate

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

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

CKA_CLASS CK_OBJECT_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\001\011\006\000\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\000\3125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\040\206\040\000\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\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\001\011\006\000\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\000\3125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\040\206\040\000\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\103\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\020\023\031\167\060\020\022\137\240\003\002\001\002\002\004\002
\000\000\0271\060\015\006\011\052\020\010\026\067\015\001\001\005
\005\000\006\013\206\013\006\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\206\040\000\006\003
\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103
\171\142\145\162\124\162\165\163\164\040\122\157\157\164
\027\015\060\060\060\056\061\062\061\070\064\066\060\060\060\132\027
\015\062\065\060\065\061\062\062\063\065\071\060\060\060\132\060\132
\061\103\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\020\006\003\125\004\013\023\012\103\171\142\145
\162\124\162\165\163\164\040\142\060\040\000\003\125\004\003\023
\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162
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
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\001\11\006\003\125\004\006\0230\002\125\123
\061\026\060\0240\060\003\125\004\0120\0230\15\0105\156\164\162\165
\163\1640\50\40\11\11\156\143\056\061\07\060\067\006\003\125\004
\0130\230\060\167\167\167\056\145\156\164\162\165\153\164\056\156
\145\164\057\103\120\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\033\125\004\013\0230\260\050\143
\051\040\062\060\060\060\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\033\125\004\003\023\044\0105
\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
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\201\260\061\013\060\001\11\006\003\125\004\006\0230\002\125\123
\061\026\060\0240\060\003\125\004\0120\0230\15\0105\156\164\162\165
\163\1640\50\40\11\11\156\143\056\061\07\060\067\006\003\125\004
\0130\230\060\167\167\167\056\145\156\164\162\165\153\164\056\156
\145\164\057\103\120\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\033\125\004\013\0230\260\050\143
\051\040\062\060\060\060\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\033\125\004\003\023\044\0105
\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
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\02\00\04\105\153\120\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\221\106\202\003\171\124\003\002\001\002\002\004\105
\153\120\124\060\015\006\011\052\206\110\206\367\015\000\010\1005
\005\000\060\201\260\013\060\011\006\003\125\004\006\0230\002
\125\123\061\102\060\024\060\003\125\004\012\0230\15\0105\156\164
\162\165\163\164\054\040\11\11\156\143\056\061\07\106\067\006\003
\125\004\013\0230\60\167\167\167\056\145\156\164\162\165\163\164
\105\156\145\164\057\103\120\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\137\060\035\006\033\125\004\013\0230\26
\050\143\051\040\062\060\060\066\040\105\156\164\162\165\163\164
\054\040\11\11\156\143\056\061\055\060\053\006\033\125\004\003\023
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:87:92:1F:1D: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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \263\036\261\100\003\335\076\000\016\075\020\022\037\035\077\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \326\245\076\000\003\010\075\020\022\037\035\077\344
END
CKA_ISSUER_MULTILINE_OCTAL \060\020\021\260\006\11\006\003\125\004\006\023\002\125\123
\061\260\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\010\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\022\034\015\116\304\015\156\143\157\162\160
END

Open Source Used In Crosswork Optimization Engine 4.0.0 13058
Open Source Used In Crosswork Optimization Engine 4.0.0 13059

# 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
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_ID UTF8 "0"
Open Source Used In Crosswork Optimization Engine 4.0.0

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65658 (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_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\061\013\060\001\011\006\003\112\005\004\006\002\023\002\010\017\012\020\061
\033\060\031\006\000\003\125\004\000\010\014\002\022\017\016\214\141\164\145
\162\204\011\154\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\010\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\010\101\040\013\145\162\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\061\013\060\001\011\006\003\125\004\006\002\023\002\010\017\012\020\061
\033\060\031\006\000\003\125\004\010\014\002\022\017\016\214\141\164\145
\162\204\011\154\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\010\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\010\101\040\013\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_VALUE MULTILINE_OCTAL
\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001
\173\061\010\130\060\11\006\003\125\004\006\002\023\002\017\012\020\061\033
\060\031\006\003\125\004\010\014\002\022\017\016\214\141\164\145\162
\040\011\154\156\143\150\145\163\164\145\162\061\020\060\160\066
\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\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\010\101\040\013\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_VALUE_MULTILINE_OCTAL
\060\202\004\062\060\202\003\032\240\003\002\001\002\002\001\001
\173\061\010\130\060\11\006\003\125\004\006\002\023\002\017\012\020\061\033
\060\031\006\003\125\004\010\014\002\022\017\016\214\141\164\145\162
\040\011\154\156\143\150\145\163\164\145\162\061\020\060\160\066
\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\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\030\014\030\011\010\101\040\013\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

Open Source Used In Crosswork Optimization Engine 4.0.0 13062
Open Source Used In Crosswork Optimization Engine 4.0.0  13064

cka_nss_mozilla_ca_policy cka_bbool cka_true
cka_nss_server_distrust_after cka_bbool cka_false
cka_nss_email_distrust_after cka_bbool cka_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 cka_true
cka_private ck_bbool cka_false
cka_modifiable ck_bbool cka_false
cka_label utf8 "Comodo AAA Services root"
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_trusted_delegator
cka_trust_step_up_approved ck_bbool cka_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

# 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

# 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# 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

END

// Open Source Used In Crosswork Optimization Engine 4.0.0 13072


\007\017\222\120\111\121\335\061\227\137\311\351\067\252\073\131
\145\227\224\062\311\237\076\072\142\130\305\111\255\142\016
\161\245\062\252\057\306\211\166\103\100\023\023\147\075\242\124
\045\202\311\361\072\362\331\372\333\111\126\273\246\376\247\101
\065\303\340\210\141\311\120\130\373\337\066\020\042\230\131\352\260
\112\373\126\026\163\156\254\115\367\042\241\117\255\035\172\055
\105\047\345\060\301\136\362\332\023\331\045\102\121\225\107\003
\214\154\041\134\164\102\355\123\377\063\213\217\017\127\001\026
\057\317\246\356\311\160\042\204\275\375\276\154\013\003
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 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\114\236\274\070\017\236\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\101\306\011\106\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\033\117\150\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\13\023\106\123\145\143\165\164\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\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
# 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_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_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\105\125\061
\047\060\045\006\003\125\004\012\023\036\010\013\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\106\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\104\206
\040\060\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\140\157\146\040\103\157\155\155\145\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\010\013\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\106\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\104\206
\040\060\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\140\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_VALUE MULTILINE_OCTAL
\060\020\004\275\060\020\003\245\240\003\002\001\002\002\001\000
Open Source Used in Crosswork Optimization Engine 4.0.0 13076
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 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
# 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\120\162\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\103\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\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\101\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\040\006
\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 cka_trust ckt_NSS_MUST_VERIFY_TRUST
cka_trust_email_protection cka_trust ckt_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing cka_trust ckt_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved cka_bbool cka_false

#
# 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 cka_object_class cko_certificate
cka_token cka_bbool cka_true
cka_private cka_bbool cka_false
cka_modifiable cka_bbool cka_false
cka_label utf8 "Xramp Global CA Root"
cka_certificate_type cka_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\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\143\165\162\151\164\171\105\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
\040\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\001\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\143\165\162\151\164\171\105\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
\040\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\354\030\352\325\234\115\325\227\357\165\217
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 "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
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL


```
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\120\020\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\103\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\156\162\151\164\171\106\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\130\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\012\020\022\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
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\001\100\060\003\125\004\006\023\002\125\123\061
\041\060\037\000\003\125\004\012\023\030\124\150\145\140\107\157
\040\104\141\144\144\144\171\040\107\162\157\165\160\154\140\111\156
\143\056\061\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_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 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)
# Not Valid Before: Tue Jun 29 17:06:20 2004
CKA_CLASS CK_OBJECT_CLASS 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"
# 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

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 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_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\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\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\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\011\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

# 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_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\006\003\125\004\012\023\041\104\151\147\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\151\147\151\143\145\162\164\056\143\157
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 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
# 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"

# Certificate "DigiCert Assured ID Root CA"

# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
#231:262:115:103

CKA_CLASS CK_OBJECT_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 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_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 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
CKA_SUBJECT_MULTILINE_OCTAL
06014d061003040f02010d0600010d0906000315250004000600230002125123061
025606002300060003125000401202301410415114715111031145
16216404011115614306103106002700600031250004013023
02016716716705614415114715111431145162164056143157
1550610400600306000031250004003023027104151147151
103114516216404010711541157114211411540401122115711571164
0401031101

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 "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\010\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\06
\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
# 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\111\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\043\060\041\006\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
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```
# 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\103\061\253\046
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\311\230\047\167\050\036\075\016\025\074\204\000\270\020\030\346
END
CKA_ISSUER_MULTILINE_OCTAL
\060\111\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\107\061\043\060\041\006\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\020\103\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
```

# 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 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\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\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
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\027\310\003\103\365\136\117\260
END

CKA_VALUE MULTILINE_OCTAL
\060\020\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\011\052\206\110\026
\367\15\001\001\005\005\000\060\105\060\101\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\040\032\206\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\060\060\060\061\060\062\065\060\060\063\060\063\132\027
\015\063\066\061\060\062\065\060\070\063\060\063\132\027
\061\101\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\206\123

Open Source Used In Crosswork Optimization Engine 4.0.0 13104
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 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_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
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157
\237\032\047\141
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223
END
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\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\070\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

# 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"
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\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\123\151\154\166\145
\162\040\103\101\040\055\040\070\062
END
CKA_ID UTF8 "0"
Open Source Used In Crosswork Optimization Engine 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 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
\207\232\240\145\154\114\011\014\211\272\270\323\271\300\223
\212\060\372\215\345\232\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353
\233\016\043\361\237\273\272\174\334\334\154\021\227\045\262\362
\264\143\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\316\312\142\330\056
\156
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\131\175\317\311\374\015\300\126\165\226\330\142\023
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\23\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_TRAUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
  06011061013206011100600031250040060230021025123061
  040060003600003125004012023207123145143165162145
  1241621651163164040103157162160157162141164151157
  1560610257060003125004003203016123145143165
  1621451241621651163164040103101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
  06011061013206011100600031250040060230021025123061
  040060003600003125004012023207123145143165162145
  1241621651163164040103157162160157162141164151157
  1560610257060003125004003203016123145143165
  1621451241621651163164040103101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
  0020200143602161134010026245255102177360353047030
  131320

END

CKA_VALUE MULTILINE_OCTAL
  060202003270160220021240224003002001002002020014
  13602161340100262452551021773603530470301131320060
  01500600110522061102061367015001001005005000060110
  061010100600110060031250040060230021251230161040060
  036000003125004012023207123145143165162145124162
  1651613164040103157162160157162141164151157156061
  0270602500060031250040030232016123145143165162145
  124162165116316404010311010060360270150600600061061
  060060706107063010610601070132027015062071061062063
  061010100136906006506513206011006101200601060003
  125004006023002125123016104006036006003125004012
  023202701231451431651621451241621651163164040103101
# 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:00: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

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 "SecureTrust CA"
CA-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
CA-Cert MD5-Hash MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\123\352\055\251\124\321
CA-Issuer MULTILINE_OCTAL
\060\110\061\013\060\011\013\060\003\125\004\023\002\125\123\061 \040\060\036\006\003\125\004\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\102\060\025\006\003\125\004\003\023\016\123\145\143\165 \162\145\124\162\165\163\164\040\103\101
CA-Serial Number MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030 \131\130
CA-Trust Server Auth CK_Trust CKT_NSS_TRUSTED_DELEGATOR
CA-Trust Email Protection CK_Trust CKT_NSS_MUST_VERIFY_TRUST
CA-Trust Code Signing CK_Trust CKT_NSS_MUST_VERIFY_TRUST
CA-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_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
06011206110101060001110060031125000030060230021025\123061
0400060306000031250004010203027123145143165\162145
\124162\1651\63164040103157162160157162141\64151157
\156061031060027006003125000403023020123145143165
\1621450401071\541571421\411540401031101
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
06011206110101060001110060031125000400690230021025\123061
0400060306000031250004010203027123145143165\162145
\124162\1651\63164040103157162160157162141\64151157
\156061031060027006003125000403023020123145143165
\1621450401071\541571421\411540401031101
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
06020200327406020202244240003002001000200200007
\126042\2443503242122111115364023310360370352245060
\015006011105220611102063670150010010050500000600112
061103060611100600311250040060230021025\123061
030060039125004012023027123145143165\162145
\124162\1651\63164040103157162160157162141\64151157
\156061031060027006003125000403023020123145143165
\1621450401071\541571421\411540401031101
06106106006706101064062062070132027015062071061
0620630610610710650620600661320601112061013060111
066000112500040060230021025\123061
030060039125004012023027123145143165\162145
\124162\1651\63164040103157162160157162141\64151157
\156061031060027006003125000403023020123145143165
\1621450401071\541571421\411540401031101
06106106006706101064062062070132027015062071061
0620630610610710650620600661320601112061013060111
066000112500040060230021025\123061
030060039125004012023027123145143165\162145
\124162\1651\63164040103157162160157162141\64151157
\156061031060027006003125000403023020123145143165
\1621450401071\541571421\411540401031101

Open Source Used In Crosswork Optimization Engine 4.0.0  13114
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
# 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_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

# 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_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
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\006\023\002\125\123\061
\040\060\036\000\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_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
# 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: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

CKA_CLASS CK_OBJECT_CLASS 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
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\134\110\334\367\102\162\354\126\224\155\034\134\161\065\200\165
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\201\201\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\14\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\000\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
# 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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
# 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_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\026\006\003\125\004\006\023\002\125\123\061\026

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\345\337\316

CKA_ISSUER MULTILINE_OCTAL
\041\100\037\003\000\023\012\125\040\011\151\164\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\063\157\302\134\026\346\107\026\027\343\220\061 \150\0340

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# 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\060\003\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\031\125\004\012\023\021\103\117\115\17\104\117
\040\010\103\010\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\033\103
\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_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\060\003\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\031\125\004\012\023\021\103\117\115\17\104\117
\040\010\103\010\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\033\103
\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\037\107\257\252\252\252\200\160\120\124\114\001\236\233\143
\231\052
END

CKA_VALUE MULTILINE_OCTAL
060202002211060202002017240003002001002002020037
10725272521420001601201241140011236231431431431431052060
012000610105206011031610750040030003060201205061013
06091100600312500040060023002107102061033060300310006
000312500401002302021071621471141164145162040115141
1561431501451631641451620610206060116000312500401235
00072030212314111451461571621440610320602030006003
12500401202302110311711511710417040103101040114
1511551511641451440610503005100000125004003023
04210311711511710411704010510310304010331451162164
1511461511431411641511571650401011651641501571162
151164171060036027011506007060060360606606060606060
060606006013202271506307006061061070062063065071
065071132060201205061013060011060003125004006023
0021071020610330600310060003125004010023022107162
145141164145162040115141156143150145163164145162
06102060016000603125004007023007101231141154146157
1621440610320600300060063125004012023021103317115
1171041170401031040114151155151164145144061053
0605051060031250040030230423013117115117104117040
105103103040031451621641514615143141164151157
156040101165164150157162151164171060166006020006
007052206110316075002001006005053201004000042003
1420000040301071730571653112020250205373165344221
02632425314223316350761122013006361610100001772273341
012044074035001004356075322215011227014340165344
03723731671205236500314011306062131026043026255011
016113641123640501202643762103043156077154057057011
1311133245133010363231342303075211371152054357262
13230063512431022601000600350060031025035106004026
004024165161247031111031127423523535201073372224
3041101672813232117105616106000312500510010010377
0040040030012001060060017006003102500320010010377
00400506060030101137706012006010520601103616705
00400300301350000601450206100003570003133172524
02671700121612672103373772651060240110112372240346
1750103060320272750303250163275046312400114235316
231232731713401760341276024061352002600243264223
07411124706317222016610726314317502312331162671157
03000672001233763355040340065323206632103070012711346
034333536337703505407202612733112220711326
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 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\021\205\061\103\060\011\100\003\125\004\006\023\002\107\012
\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\060\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\040\103\117\115\117\104\117\040\105\033\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\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_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 GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
# Trust for Certificate "OISTE WISEKey Global Root GA CA"

# Issuer: CN=OISTE WISEKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# Subject: CN=OISTE WISEKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 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_ISSUER MULTILINE_OCTAL
\131\142\122\065\076\011\117\163\103\154\065\022\063\104\122\057\150\046\124

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124

END

CKA_ISSUER MULTILINE_OCTAL
\060\020\121\063\247\351\323\146\143\124\025\162\033\041\222\223

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
END

# 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"
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

END

END
```
273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\221\064\276\101\135\73\235\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\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 "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0fe: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_CLASS CK_OBJECT_CLASS 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\067\130\055\304
\254\375\224\227
END

# 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
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# 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\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\031\125\004\013\140\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_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\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\031\125\004\013\140\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
\02\02\02\05\31\07\145\107\134\257\270\227\000\136\344\006\322 \274\235
END

CKA_VALUE MULTILINE_OCTAL
\060\02\02\00\05\269\060\220\02\03\2\230\240\003\002\001\002\002\020\025 \\130\275\145\107\134\257\270\227\000\136\344\006\322 \274\235\060 \\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\136 \\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060 \\014\001\006\031\25\004\012\014\032\103\150\165\156\147\150 \140\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164 \\144\056\061\052\206\050\006\031\125\004\013\140\041\145\120\113 \\111\110\122\157\157\164\040\103\157\150\164\151\143\141 \\164\151\157\156\040\101\165\164\150\157\162\151\164\171 \\02\07\01\056\060\064\061\062\062\060\060\062\063\061\062\067\132\027 \\015\063\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\125\004\012\014\032\103\150\165\156\147\150\167\141 \\144\056\061\052\206\050\006\031\125\004\013\140\041\145\120\113 \\111\104\122\157\157\164\040\103\145\162\164\151\146\151\143\141 \\144\056\061\052\206\050\006\031\125\004\013\140\041\145\120\113 \\111\104\122\157\157\164\040\103\145\162\164\151\146\151\143\141
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

END
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

Class CK_OBJECT_CLASS
Token CK_TRUE
Private CK_FALSE
Modifiable CK_FALSE
Label UTF8 "certSIGN ROOT CA"
Certificate Type CK_CERTIFICATE
Certificate Type CK_OBJECT_CLASS
Subject MULTILINE_OCTAL
Issuer MULTILINE_OCTAL
Serial Number MULTILINE_OCTAL
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
# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# 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_ISSUER MULTILINE_OCTAL
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
# Certificate "NetLock Arany (Class Gold) Ftnanstvny"

# 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 CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\001\1\006\003\125\004\006\023\002\110\125
\061\021\006\000\017\006\000\312\500\004\007\014\010\12\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\12\500\004\012\101\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\12\14\15\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\12\500\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\145\010\040\106\305\22\164\141\156\303
\272\163\303\255\164\166\303\241\156\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\001\1\006\000\312\500\004\006\023\002\110\125
\061\021\010\000\017\006\000\312\500\004\007\014\010\12\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\12\500\004\012\101\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\12\14\15\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\12\500\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\145\010\040\106\305\22\164\141\156\303
\272\163\303\255\164\166\303\241\156\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\201\247\061\013\060\001\1\006\000\312\500\004\006\023\002\110\125
\061\021\010\000\017\006\000\312\500\004\007\014\010\12\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\12\500\004\012\101\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\12\14\15\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\003\12\500\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\145\010\040\106\305\22\164\141\156\303
\272\163\303\255\164\166\303\241\156\171

END
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END

CKA_VALUE MULTILINE_OCTAL

0600202000040250602020020375240000300200100200020061111
1010105434440000200200601150060110525206110206367615001
00101300050000060201124706111306091110000003125004006
023502110125061012060017000031250004007101400100102
1651441416104145163146406112506002300060031125004012
0140141614156141415143153040113146164056001061067
060006500003125004013104056124141156303272163303
255164166303241156171153151114144030263153040050
1031314621641511461151413114164151151560401231415
162116615111431451630510610650063000603125004003
0140541164156141415761431530401011621611561171040
05010315414116313040107157154144051040106305221
1641411563032721633032551641663032411156171060036
027015006070061062061106106560070062061132027
0150620707061062060606106560070062061132060201
1247061013060011006003125004060230002110125061021
0060017006003125004007014010102165144114160145163
1649061250602300660312500401201401146145164114
157143153400113146164056016706065006003125004
01301405612414111563032721633032551641663032411156171060036
1711531511144030263153040050103145162164151146
1511431411641451157156040123145162166151143145163
051061065006063000603125004003104054116145164114
1571431530400110162141156171040050103154141163163
040107157154144051040106305221164141156303272166
13033251641663032411561710602020010420600150060111
052206110206367615001001100500003022001017000
0602002101200020200101000030404413616332762113155
02430321436434332272201563220600105036074356147331
144340032212177312060312033343040301343364072323
224137032174131155277606117120407366923703111274
030621012202362017365177103204067143121213172245
160374172130315216233355303106154204616013533263
00210043374116060251176341047143347355144074240
02703110631433736026220377262070375327250300300224
10301326632531312462361263200440371601171257333071
1240140516533102510224001257136354366215361377
2255144376040023232371343533762460370310144243213166
1252550360730501400562070545350252570373061144106
040027616011770743361103332261232670711673440323324
0307026204166227113305727303102502053701511205365231
2247251362064247251266246003374157206075124174166
0042315337110011350000643070562311652353452100003
2521143700033221021663000330020003000250212343105
0601030600220060003125035023001001377004010060006
# 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

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) Ftanstvny"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\024\004\204\015\124\153\251\003\320\006
\267\227\011\221
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\035\241\267\377\163\335\326\327\064\062\030\037\374\074\255\210
END
DOCKER CONFIG

# 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 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 MULTI_LINE_OCTAL
\060\020\021\024\061\013\060\001\11\006\003\125\004\006\023\002\110\125
\061\021\060\001\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\060\003\125\004\012\014\014\116\145
\164\141\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\040\050\103\145\162\164
\151\146\151\143\14\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\161\065\060\063\006\003\125\004\003\14\054\116\145
\164\141\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 MULTI_LINE_OCTAL
\002\006\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
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
\x326\x332\x250\x040\x215\x011\x322\x025\x115\x044\x265\x057\x313\x064\x156\x262
\x130\x262\x212\x130
end
cka_cert_md5_hash MULTILINE_OCTAL
\x250\x015\x157\x071\x170\x271\x103\x155\x167\x102\x155\x123\x14\x043\x312
end
cka_issuer MULTILINE_OCTAL
\x060\x107\x061\x013\x060\x011\x006\x003\x125\x004\x006\x023\x002\x110\x113\x061
\x026\x060\x024\x006\x003\x125\x004\x012\x023\x015\x110\x157\x156\x147\x153\157
\x156\x147\x040\x120\x157\x163\x164\x061\x040\x060\x036\x006\x003\x125\x004\x003
\x023\x027\x110\x157\x156\x147\x153\x157\x156\x147\x040\x120\x157\x163\x164\x040
\x122\x157\x157\x164\x040\x103\x101\x040\x061
end
cka_serial_number MULTILINE_OCTAL
\x002\x02\x003\x350
end
cka_trust_server_auth ck_trust ckt NSS_TRUSTED_DELEGATOR
# 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

```c
\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"

```c
\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\001
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\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
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147\156
```
\362
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)
# 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_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\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\352\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\110\060\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\0032
\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
CKA_CLASS CK_OBJECT_CLASS CK_O_SZIGNO_ROOT_CA 2009

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

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# 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
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

CAKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CAKA_TOKEN CK_BBOOL CK_TRUE
CAKA_PRIVATE CK_BBOOL CK_FALSE
CAKA_MODIFIABLE CK_BBOOL CK_FALSE
CAKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CAKA_ISSUER MULTILINE_OCTAL
CAKA_SERIAL_NUMBER MULTILINE_OCTAL
CAKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "GlobalSign Root CA - R3"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:00:01:21:58:53:08: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\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\063\061\023\060\021\006\003\125\004\012\023\012\0107
\154\157\142\141\154\123\151\147\156\012\023\060\021\006\003\125
\004\003\023\012\0107\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\000\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\063\061\023\060\021\006\003\125\004\012\023\012\0107
\154\157\142\141\154\123\151\147\156\012\023\060\021\006\003\125
\004\003\023\012\0107\154\157\142\141\154\123\151\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\014\130\123\010\0242
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\137\060\202\002\0107\240\003\002\001\002\002\001\013\004
\000\000\000\000\000\001\041\130\123\010\242\060\015\006\011\052\206
\111\020\367\015\001\001\010\130\005\000\006\014\061\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\040\103\101\040\055\040\122\063\061\023\030\060
\021\006\003\125\004\012\023\012\0107\154\157\142\141\154\123\151
\147\156\061\023\060\021\006\003\125\004\003\023\012\0107\154\157
\142\141\154\123\151\147\156\060\036\027\015\060\071\060\063\061
\070\061\060\060\060\060\060\060\060\060\032\027\015\062\071\060\063\061
\070\061\060\060\060\060\060\060\060\060\060\060\060\060\060\032
\004\013\023\027\0107\154\157\142\141\154\123\151\147\156\040\122
# 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\312\005\023\125\356\055\272\032\303\076\260\050
END
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\023\060\021\006\003\125\004\012\023\012\0107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125\004\013\023\012\0107
\205\013\004\000\000\000\000\001\041\130\123\010\242
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\041\130\123\010\242
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 "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


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\265\377\372\244\107\275\144\062\273\366\045\204\242\047\102\365
\040\260\302\23\020\021\315\020\025\272\022\220\052\322\104\341
\226\046\353\061\110\020\237\35\025\323\311\006\317\164\036\251\113
\325\027\050\371\171\064\422\076\056\104\350\366\217\171\217\065
\077\045\263\071\133\041\343\052\220\153\040\137\304\122\022\116\227
\054\052\252\325\227\336\110\103\262\243\146\333\302\322\203\025\246
\146\247\236\045\017\013\063\221\145\012\132\033\311\024\022
\335\027\303\116\016\037\046\136\015\334\263\215\354\252\201\116
\336\022\171\044\005\363\154\116\365\114\111\146\215\321\377\332
\013\045\101\110\306\012\257\200\004\317\320\176\144
\111\134\362\337\242\354\261\114\300\052\035\347\264\261\145\242
\304\274\361\230\364\252\160\007\143\324\270\332\073\114\137\2100
\042\060\133\021\246\360\005\016\306\002\003\110\253\206\233\205
\335\333\335\352\242\166\200\163\175\365\234\004\304\105\215\347
\271\034\213\236\352\327\165\321\162\261\133\165\104\347\102\175
\342\127\153\175\334\231\274\075\203\050\352\200\223\153\051\114
\145\030\160\201\270\070\374\103\061\262\236\366\003\064\107\262\254
\373\040\006\130\036\350\271\070\034\137\146\271\323\032\242\332
\021\261\244\274\043\131\134\276\207\377\271\224\266\370\135\040
\112\234\137\347\275\150\173\145\362\025\036\322\072\251\055\351
\330\153\044\254\227\130\040\107\255\131\030\361\041\145\160\336
\316\064\140\250\100\361\136\363\074\244\303\050\043\214\376\047\063
\103\010\240\027\074\353\352\073\260\162\246\243\271\112\131\136
\026\110\364\262\274\310\214\222\230\235\237\254\162\066\274\064
\200\064\153\251\212\322\300\270\027\355\354\166\123\365\044\001
\214\263\042\350\113\174\125\306\235\373\242\034\227\145\205\156
\156\117\022\176\012\074\235\225
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
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\0372
```

OPEN SOURCE USED IN CROSSWORK OPTIMIZATION ENGINE 4.0.0

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\060\101\13\060\011\100\6\003\125\004\006\023\002\105\123\061
\10\2\060\100\006\003\125\004\003\104\071\110\16\164\157\162\151
\14\4\144\140\040\144\145\040\103\145\162\164\151\146\151\143\141
\14\3\151\157\156\040\106\151\162\155\14\160\162\157\146\145\163
\15\1\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
CKA_CLASS CK_OBJECT_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\100\6\003\125\004\006\023\002\105\123\061
\024\060\022\060\003\125\004\012\140\013\11\132\105\116\120\105
\040\123\056\101\056\06\102\03\060\21\100\003\125\004\003\140\012
\11\1\7\1\4\5\156\160\145\056\143\157\155

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\070\061\013\060\011\100\6\003\125\004\006\023\002\105\123\061
\024\060\022\060\003\125\004\012\140\013\11\132\105\116\120\105
\040\123\056\101\056\06\102\03\060\21\100\003\125\004\003\140\012
\11\1\7\1\4\5\156\160\145\056\143\157\155
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

# 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_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_CERificate_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
\060\013\000\006\003\125\004\006\023\002\105\125
\061\010\010\010\010\007\023\072\115\141\144\162\151
\144\040\050\016\145\145\140\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\155\056\143\141\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\031\125\004\005\023\011
\010\070\062\067\064\063\062\070\067\061\013\033\060\031\006\003\125
\004\012\023\022\101\103\140\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\140\122\157\157\164\040\055\140\062\060\060
\070
END

# CKA_ID UTF8 "0"
# CKA_ISSUER MULTILINE_OCTAL
\060\013\000\006\000\006\003\125\004\006\023\002\105\125
\061\010\010\010\010\007\023\072\115\141\144\162\151
\144\040\050\016\145\145\140\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\155\056\143\141\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\010\070\062\067\064\063\062\070\067\061\013\033\060\031\006\003\125
\004\012\023\022\101\103\140\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\140\122\157\157\164\040\055\140\062\060\060
\070
END

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\110\100\243\332\112\176\246\261\256\332
END
\357\214\017\142\112\174\256\323\365\124\370\215\266\232\126\207
\026\202\072\263\253\132\042\010\367\202\272\352\056\340\107\232
\264\265\105\243\000\059\073\333\133\040\056\105\100\073\352\334\177\350
\073\353\321\354\046\330\065\244\060\305\072\254\127\236\263\166
\245\040\173\371\036\112\005\142\001\246\050\165\140\227\222\015
\156\076\115\067\103\015\222\025\234\030\042\315\121\231\124\005\1
\032\074\137\212\062\063\133\060\307\211\057\107\230\017\243\003
\306\366\361\254\337\062\236\030\131\010\332\344\234\275\366\000\024
\360\321\054\271\205\365\330\243\261\131\024\041\134\034\023\227
\356\016\275\337\051\251\357\064\123\133\323\344\152\023\204\006
\266\062\002\304\122\225\064\042\322\334\262\041\102\032\332\100\036
\051\11\354\012\014\134\342\032\072\314\110\323\067\012\134\022
\012\12\171\260\075\003\177\151\113\364\064\040\175\263\064\035
\216\113\144\365\076\375\256\043\147\025\015\004\270\360\055\030
\011\12\074\262\215\402\536\024\245\043\327\203\164\344\134\563\111
\376\230\047\102\306\253\306\123\162\030\132\070\245\233\120\336
\176\030\230\265\105\073\366\171\126\350\036\032\173\006\203\373
\320\02\133\323\273\275\030\253\101\157\074\200\153\100\077\031
\031\12\215\245\213\342\276\325\134\323\066\327\357\100\122\044\140
\070\147\000\046\135\421\713\362\036\336\271\125\363\073\061\221
\132\334\265\010\025\255\166\045\012\051\173\056\207\342\014\246
\006\274\046\020\155\067\235\354\335\170\214\174\200\035\360\031
\167\111\320

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 "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
# 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

"Global Chambersign Root - 2008"
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06022011254061610313060601110060031125004006023002105125
061103060101006003132500400702307221151411441621511
14414040050163151415504014316516216145156164040141
1441441621451631604041411640401671671670561143141
155145176214615116215514110561431571550571141144144
16214516316305106102206062009060311250040502030111
101107062067064063062070067061103306031006033125
00401202032202101030401031141155145162146151162155
1411040123056101105606104706045060031125004030323
0361107154157142141154040103150141155142145162163
1511471560401221571571640405504062060060070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020011000031113153323351325175043316
END
CKA_VALUE MULTILINE_OCTAL
06022020007111060202020506112400003002001002002111000
3111315323135132517504331606010150601110520206110206
36701500010010050050000602012540610130600110060031
12500400602300210512506111030601010060031125004007
02307221151411441621511440405016311451450401431165
16216214515616404014114414416215613163040141164
04016716716705611431411551451621461511621551411056
143157155057141144144162154163163051061022060020
0060031250040050203011101107062067064063062070067
061103306003110600311250040120230221101103040103141
155145162146151162155141040123056101056061047060
04500603125004003023036107154157142141154040103
150141155142145162163151147156040122157157164040
055040062060060706060360270150607006000700600601
0611020630610640601320270156036107060067063061061
062063061064060132060201254061013060011006003125
00400602300201051250611030601010060031125004007023
0721151411441441621511440405016311451450401431165162
1621511561640401144144162145163163040141164040
16716716705614311411551451621461511621551411056143
15711550571411441441621561316305106102206002000
00312500400502301110107062067064063062070067061
03306003100600311250040120230221101030401031141155
# 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"

END

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_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\311\315\323\351\325\175\043\316

END

# 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
\060\201\203\061\013\060\003\125\004\006\023\002\125\123
\061\120\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\123\006\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\010\157\104\141\144\144\171\056\143\157\155\054\040\011
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\014\141\144\171\040\122\157\157\164\040\03\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\203\061\013\060\003\125\004\006\023\002\125\123
\061\120\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\123\006\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\010\157\104\141\144\144\171\056\143\157\155\054\040\011
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\014\141\144\171\040\122\157\157\164\040\03\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

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\035\060\022\02\255\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\12\637\15\001\001\013\005\000\060
\201\123\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\020\060\001\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\032\060\030\006\003\125\004\012\023
Open Source Used In Crosswork Optimization Engine 4.0.0
Open Source Used In Crosswork Optimization Engine 4.0.0 13171

# 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
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\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\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\041\141\144\144\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_SERIAL_NUMBER MULTILINE_OCTAL\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# 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_CERTIFICATE_TYPE CK_OBJECT_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"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\127\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\16\003\125\004\007\101\162\151\172\157
\156\141\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\121\125\157\164\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\104\055\040
\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\020\127\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\16\003\125\004\007\101\162\151\172\157
\156\141\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\121\125\157\164\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\104\055\040
\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

null
```
\011\052\206\110\206\367\015\001\010\013\005\000\003\202\001\001
\000\021\131\137\220\045\117\003\157\224\231\107\3\232\037\02\205\071
\324\166\005\224\136\341\050\223\155\142\213\50\011\3\02\240\250\324
\260\165\070\361\064\152\235\044\237\212\020\046\12\3\46\054\321
\306\055\156\225\040\112\222\001\13\345\270\021\047\173\061\342\147
\056\214\225\003\46\056\103\231\012\066\016\265\014\247\326
\342\067\177\042\272\000\243\016\173\011\22\373\153\273\073\304\323
\171\121\116\15\220\364\147\007\031\130\074\106\172\015\001\175
\305\130\347\155\334\246\205\060\027\232\044\334\020\34\000\043\67\340
\362\177\332\245\012\377\102\035\067\355\224\345\144\13\022\040
\167\070\323\062\076\070\020\165\226\163\372\150\217\261\133\316
\037\305\354\372\234\176\317\176\261\361\007\055\266\034\277\323
\244\277\320\227\005\112\274\352\030\050\002\220\275\12\4\170\011
\041\161\323\321\175\03\331\026\260\251\141\075\32\012\000\0042
\374\071\173\313\011\144\105\013\073\002\013\367\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_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 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_LABEL UTF8 "Starfield Root Certificate Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\061\174\356\053\001\14\075\370\125\253\055\222\364\376\071
\324\347\017\016

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\034\006\174\396\053\001\14\075\370\125\253\055\222\364\376\071

END

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Open Source Used In Crosswork Optimization Engine 4.0.0 13175

# 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_CERTIFICATE
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
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\104\060\043\006\003\125\004\012
\023\023\123\164\141\162\166\151\143\145\163\040\122\157\157\164
\154\144\040\123\145\162\151\146\151\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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_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
# 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 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 Commercial"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL

END

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 Commercial"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
# 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


CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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\014\061\013\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
\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\010\167\167\004\146\251\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
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 Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\014\061\013\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
\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\014\061\013\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
\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\010\174\170\004\071\034\324\231\055

Open Source Used In Crosswork Optimization Engine 4.0.0 13181
# 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_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\161\151\162\155\124\162\165\163\164\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\END
CKA_ID  UTF8 "0"
CKA_ISSUER  MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\161\151\162\155\124\162\165\163\164\060\034\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\END
CKA_SERIAL_NUMBER  MULTILINE_OCTAL
\002\010\155\214\024\106\261\124\61\012\356\END
CKA_VALUE  MULTILINE_OCTAL
\060\202\005\106\060\020\003\056\240\003\002\001\002\002\021\140\242\106\261\124\61\012\356\060\015\006\011\052\206\110\020\063\67\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\161\151\162\155\124\162\165\163\164\060\032\006\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\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
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
# Fingerprint (MD5): C4:5D:0E:48:B6:AC:05:00:62:06:46:00:0F:02:20

CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\020\366\143\117\175\152\006\145\046\062\050\047

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
# Certificate "AffirmTrust Premium ECC"

# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US  
# Serial Number:74:97:25:8a:cc:7c: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_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_SUBJECT MULTILINE_OCTAL
\060\105\061\101\13\060\01\11\006\003\125\004\006\023\002\125\123\061  
\124\162\165\163\164\061\03\060\032\006\003\125\004\003\014\023  
\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_ID UTF8 "0"  

CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\01\11\006\003\125\004\006\023\002\125\123\061  
\124\162\165\163\164\061\03\060\032\006\003\125\004\003\014\023  
\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_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_VALUE MULTILINE_OCTAL
\060\202\001\376\060\202\000\002\000\002\000\002\000\010\0164
\227\045\123\070\170\127\124\060\012\006\060\100\052\206\011\031\075
\004\003\003\060\015\061\013\060\011\006\003\012\004\006\023\002
\125\123\016\024\060\022\006\003\012\001\014\013\101\146\146
\151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004
\003\142\027\101\146\146\151\162\155\124\162\165\163\164\040\120
\162\145\151\151\151\040\105\010\030\060\036\027\015\061\0060
\060\061\062\070\061\064\062\060\062\064\132\027\015\064\060\061
\062\063\061\061\064\062\060\062\064\132\020\061\010\061\010\060
\006\003\125\004\006\023\002\125\123\061\012\024\060\022\006\003\125
\004\012\014\131\101\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\151\151\165\155\040\105\013
\103\060\166\060\020\006\007\052\020\061\110\031\067\050\002\001\006
\053\020\010\040\000\042\003\142\000\004\015\060\136\033\025\235\003
\320\241\171\065\267\072\074\222\172\312\120\025\343\151\142\363\234
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350
\216\031\123\057\056\110\346\254\030\010\137\254\320\067\303\027
\262\315\054\346\107\342\032\346\143\132\107\056\057\170\034\117
\333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170
\314\067\074\221\132\42\233\145\035\030\102\052\010\060\035\006
\003\125\035\156\040\026\000\042\024\322\257\051\172\300\021\065\066
\046\121\060\000\030\152\376\100\032\125\256\326\074\040\017\066\003
\125\035\030\023\001\100\137\770\004\050\060\003\001\013\177\060\016
\003\125\035\170\001\001\137\770\004\040\040\030\020\010\060\012
\010\050\22\061\110\316\075\004\003\030\033\147\000\060\144\002
\027\011\136\203\072\10\120\132\257\131\001\012\277\107\137\365\154
\152\206\340\034\047\164\344\070\123\327\005\177\033\064\343\306
\057\263\31\001\074\067\235\327\237\010\063\137\254\342\161
\002\060\102\131\207\013\324\121\337\272\323\011\062\132\136\021
\176\127\075\234\137\102\153\365\070\055\265\360\020\223\371\131
\157\256\144\372\130\345\213\036\343\143\276\265\210\135\157\002
\124\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 "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
# 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


# 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


```
% Install required packages
apt-get install python
apt-get install openssl

# Import required libraries
import os
import sys
import json

# Define function to check for the presence of certain conditions
def check_conditions(condition1, condition2, condition3):
    if condition1 and condition2 and condition3:
        print("The conditions are met.")
    else:
        print("The conditions are not met.")

# Define function to process the certificate
def process_certificate(cert, ca_policy):
    # Check if the certificate is trusted
    if ca_policy == "true" and cert.is_trusted:
        print("The certificate is trusted.")
    else:
        print("The certificate is not trusted.")

# Main function
if __name__ == "__main__":
    # Check the presence of required conditions
    check_conditions(sys.argv[1], sys.argv[2], sys.argv[3])
    # Process the certificate
    process_certificate(cert, ca_policy)
```

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 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_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\305\030\151\074\106\054\123\141\130\047\060
\046\003\023\031\012\145\162\040\151\146\151\143\141
\157\156\040\116\101\164\150\173\157\157\157\147\151
\154\040\123\056\010\056\061\047\060\045\003\125
\012\023\031\013\023\036\033\145\145\145\145
\162\164\165\155\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\116\101\164
\150\173\157\157\157\147\151\154\040\123\056
\010\056\061\047\060\045\003\125\012\023\031
\013\023\036\033\145\145\145\145\162\164
\165\163\164\145\144\040\116\145\164\167\157
\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
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 "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
null

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\x060\x137\x061\x013\x060\x011\x006\x003\x125\x000\x04\x006\x023\x0002\x024\x127\x061
\x022\x060\x020\x006\x003\x125\x004\x012\x014\x0121\x244\x127\x011\x116
\x055\x013\x101\x0161\x020\x060\x016\x006\x003\x125\x004\x013\x014\x0071\x221\x157
\x157\x164\x04\x103\x101\x061\x052\x060\x050\x060\x003\x125\x004\x003\x014\x041
\x124\x127\x103\x101\x040\x122\x157\x157\x164\x04\x010\x145\x162\x164\x151\x146
\x151\x143\x141\x164\x151\x157\x156\x04\x010\x165\x164\x150\x157\x162\x151\x164
\x171

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\x002\x001

END
CKA_VALUE MULTILINE_OCTAL
\x060\x202\x003\x173\x060\x020\x020\x0221\x43\x240\x003\x020\x001\x002\x002\x001\x001
\x060\x015\x0060\x011\x052\x206\x1110\x206367\x015001\x001\x0050005000060
\x137\x0601\x013\x0601\x000\x003\x125\x004\x006\x023\x0021\x244\x127\x061\x022
\x060\x020\x0060\x0031\x250\x00401\x012\x014011\x1241\x1011\x1111\x1271\x1011\x116
\x055\x013\x101\x061\x020\x060\x016\x0060\x0031\x250\x00401\x314\x0071\x221\x157
\x157\x164\x040\x103\x101\x061\x052\x060\x050\x060\x0031\x250\x00400\x014\x0071\x221\x157
\x164\x040\x103\x101\x061\x052\x2060\x050\x060\x0031\x250\x00400\x014\x0071\x221\x157
\x164\x040\x103\x101\x061\x052\x2060\x050\x060\x0031\x250\x00400\x014\x0071\x221\x157
\x127\x013\x101\x040\x122\x157\x157\x164\x040\x103\x145\x162\x164\x151\x146\x151
\x143\x141\x164\x151\x157\x156\x040\x101\x165\x164\x151\x157\x162\x151\x164
\x100\x030\x270\x151\x060\x070\x060\x070\x062\x070\x060\x067062064063063
\x1320270\x150\x063060\x061\x0620630\x061\x061065065065067106507107132
\x060\x01370601\x013060\x011\x0060031\x250\x00400600230021\x244\x127061
\x0220\x060\x020\x0060\x0031\x250\x004012\x0140111\x1241\x1011\x1111\x1271\x1011\x116
\x055\x013\x101\x061\x020\x060\x016\x0060\x0031\x250\x004013\x0140071\x221\x157
\x157\x164\x040\x103\x101\x061\x052\x060\x050\x060\x0031\x250\x004003014041
\x124\x1271\x013\x101\x040\x122\x157\x157\x164\x040\x103\x145\x162164151146
\x151143\x141\x1641\x151\x157\x156\x040\x101\x165164150\x157162151164
\x171060\x2020\x0142060\x015006011052206\x110206367\x015001
\x001001005009003202001017000060200200101200202001
\x001000260117616227024403222434624733601\x1070221112
\x021100207247174131144024173265021020335376277325
\x300273126334202504536406516201737012313201013411104
\x0010321624034300611020261072050630421662620121157
\x017345045120117205026276277230056020147036276021
\x00520605022003413132017417002026001342673411307
\x0531653131174237256263321235043671143247334102242
\x05522200403312030117327007603311126004123057122

Open Source Used In Crosswork Optimization Engine 4.0.0  13193
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 "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"
# 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

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 "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_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\001\111\006\003\125\004\006\023\002\116\114\040\116
\027\060\025\006\003\125\004\012\140\016\104\151\147\151\116\157
\164\141\162\040\020\056\126\056\061\062\060\060\006\003\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\150\145\151\144\040\103\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\132\061\013\060\001\111\006\003\125\004\006\023\002\116\114\040\116
\027\060\025\006\003\125\004\012\140\016\104\151\147\151\116\157
\164\141\162\040\020\056\126\056\061\062\060\060\006\003\125\004
\003\014\051\104\151\147\151\116\157\164\141\162\150\145\151\144\040\103\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_VALUE MULTILINE_OCTAL
\060\202\006\225\060\202\004\175\240\003\002\001\002\002\004\017
\377\377\377\377\006\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116
\114\061\027\060\025\006\003\125\004\012\140\016\104\151\147\151
\116\157\164\141\162\040\102\056\126\056\061\062\060\060\006\003
\125\004\003\014\051\104\151\147\151\116\157\164\141\162\150\145\151\144\040\103\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062
END

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# Trust for 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_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_TRUE
# 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
\027\060\025\006\000\03\125\004\012\014\016\010\151\147\151\151\161\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\013\111
\157\166\145\162\150\045\151\144\040\03\010\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
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\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
\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\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
\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_VALUE MULTILINE_OCTAL
\060\202\003\167\060\022\002\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\105\001\000\101\13\005\000\060
\135\061\101\130\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\003\125\004\012\023\034\123\013\033\117\115\040\0124
\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\060\036
\027\015\060\071\060\065\062\071\060\065\060\060\063\071\132\027
\015\062\071\060\065\062\071\060\065\060\060\063\071\132\026\0135
\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\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\141\103\106\020\001
\042\060\015\006\011\052\206\110\206\367\105\001\000\101\100\050
\003\202\001\017\000\060\020\001\012\000\202\001\010\000\320\025
\071\122\262\112\223\223\272\305\131\120\230\135\122\256\072\103\1145
\200\133\307\362\226\274\333\066\227\326\246\144\214\250\136\360
\343\012\034\367\337\227\075\113\256\366\135\354\041\265\101\1253
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
# Certificate "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificació Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificació,O=Agencia Catalana de Certificació (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificació Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificació,O=Agencia Catalana de Certificació (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
  
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_TRUST CKBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

# For Server Distrust After: Sat Dec 28 00:00:00 2019
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL

# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

# 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-0801176-1),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"

# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011, O=Hellenic Academic and Research
Open Source Used In Crosswork Optimization Engine 4.0.0  13212

# 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
\376\105\145\233\171\003\133\230\241\141\265\121\056\254\332\130
\011\110\042\115
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\237\114\113\163\133\171\351\372\272\034\357\156\313\325\311
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\044\060\102\006\003\125\004\012\023\073\110\143\154\156\145
\156\151\143\041\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
\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
# 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
\002\001\000
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: 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 2 issued by Trustwave"
\137\116\037\221\224\372\376\054\243\330\166\032\270\011\15\262\070
\117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\016
\217\111\172\326\345\275\012\016\333\055\363\215\277\353\343\244
\175\313\307\225\161\350\332\243\174\305\302\370\164\222\004\033
\206\254\244\042\212\100\266\254\376\114\166\317\373\224\062\300
\065\237\166\077\156\345\220\156\240\046\242\270\054\276\321
\053\205\375\247\150\310\272\001\053\261\154\164\035\270\163\225
\347\356\267\307\045\360\000\114\000\262\176\266\013\213\034\363
\300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124
\144\054\311\047\265\113\222\176\145\377\323\055\341\271\116\274
\177\244\101\041\220\101\116\246\071\037\352\236\343\327\320\014
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124
\057\053\021\047\045\067\170\114\121\152\260\363\314\130\135\024
\361\152\110\025\377\302\007\266\261\215\017\216\134\120\010\062\63
\075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223
\056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056
\216\362\024\121\314\351\265\174\373\154\235\014\245\341\226
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 "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:97:42:ce: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 (MD5): 69:C1:42:ce:e3:cc
CKA_CLASS CK_OBJECT_CLASS 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\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\366\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\01\100\60\312\500\04\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\140\051\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\140\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
v\16\004\026\004\024\311\202\222\202\365\106\234\363
\272\367\114\033\336\270\024\255\071\060\016\060\003\125\035\017
\001\001\377\004\000\003\002\001\006\060\015\006\011\052\206\110
\206\367\015\000\010\013\005\000\003\020\002\001\000\012\137\041
\365\272\260\072\122\071\054\222\260\015\040\000\311\357\316\040\357
\006\362\226\226\226\355\124\164\177\172\202\263\374\267\365\266\337\302
\033\077\253\246\300\162\161\135\245\274\117\343\255\254
\003\155\056\161\105\256\253\304\343\255\243\275\01\04\02\247\264\377
\112\262\173\020\037\247\127\101\026\200\256\364\054\131\132
\107\020\210\363\041\121\051\060\312\140\026\257\106\253\035\355
\072\133\260\224\336\043\343\101\101\024\230\035\034\352\367\117
\266\326\107\302\024\133\123\346\312\265\173\167\161\103\071\136
\203\303\077\266\140\071\226\260\077\226\220\110\157\140\220\342\350
\371\137\042\161\331\175\263\075\106\277\264\024\257\220\034\017
\217\022\152\257\357\356\036\172\256\002\112\212\027\053\166\376
\254\124\211\044\054\177\077\266\262\247\116\214\250\221\227\373
\051\106\173\134\055\271\131\146\266\267\250\133\022\121\050\265
\011\176\142\170\160\376\251\152\140\266\035\016\171\014\375\312
\352\044\200\162\303\227\077\362\167\253\103\042\123\073\353\266
\014\204\202\054\200\153\101\121\020\030\033\245\153\337\231\022
\313\132\325\136\000\214\221\300\340\046\010\066\110\305\372\070\021
\065\377\045\203\055\352\172\277\332\375\216\376\245\313\105\054
\037\034\210\123\256\167\016\331\232\256\035\216\054\035\243\272
\325\354\062\256\030\252\254\367\321\172\115\353\324\007\342\110
\367\042\216\260\244\237\152\231\062\262\262\140\364\243\040\320
\043\353\224\132\172\151\335\017\277\100\127\254\153\131\120\331
\243\231\344\115\367\321\150\011\171\047\030\325\336\222\235\173\011
\115\132\347\113\110\060\132\030\346\012\155\346\217\340\322\273
\346\337\174\156\041\020\230\150\071\115\264\230\130\146\142\314
\112\220\136\033\372\047\004\261\171\025\164\231\134\276\255\040
\336\046\140\034\353\126\121\246\243\352\344\243\037\247\377\141
\334\361\132\115\154\062\043\103\356\254\250\356\356\112\022\011
\074\135\161\102\276\171\137\302\207\150\035\013\375\134\151\134
\006\362\231\175\124\231\052\311\070\302\031\257\113\052\103\363
\143\135\132\103\342\057\343\035\344\251\326\200\012\320\236\277
\327\201\113\361\311\307\046\015\254\230\026\126\240
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 "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_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"
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 "Bypass Class 3 Root CA"
#
# Issuer: CN=Bypass Class 3 Root CA,O=Bypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Bypass Class 3 Root CA,O=Bypass 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_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

Open Source Used In Crosswork Optimization Engine 4.0.0 13221
# 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"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\060\003\125\004\012\014\024\102\165\171\160\141\113
\163\040\101\123\055\071\070\063\061\066\063\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\063\040\122\157\157\164\040\103\101

CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\060\003\125\004\012\014\024\102\165\171\160\141\113
\163\040\101\123\055\071\070\063\061\066\063\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\063\040\122\157\157\164\040\103\101

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)
# 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_MODIFIABLE 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
\060\201\202\061\013\060\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\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\162\061\045\060\043\006\003\125\004\003\104\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\063

END
CKA_ID UTF8 "0"
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\163\164\145\155\163\040\105\156\164\145\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\162\061\045\060\043\006\003\125\004\003\104\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\063

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\201\202\006\013\060\011\006\003\125\004\006\023\002\104\105\053\060\051\006\003\125\004\012\014\042\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\104\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\063

END

Open Source Used In Crosswork Optimization Engine 4.0.0 13225
Open Source Used In Crosswork Optimization Engine 4.0.0
# 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
\312\373\100\250\116\071\122\212\035\376\216\057\304\047\352\357

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
\021\343\201\321

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\163
\164\145\155\163\040\105\156\164\145\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\162\026\014\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\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_delegate
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

# 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 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_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_true
cka_label utf8 "TURKTRUST Mis-issued Intermediate CA 1"
ckaIssuer_multiline_octal
0602012544061075\060073\06060031\250040030140064\12303
\234122\113\124122\125123\124040105154145153164162157
\156151153040123\16515616514316540123\145162164151
\146151153141163\304261\04011015\172155\145164\154145
\16215106101306001\00600031\25004006023002\124122061
\1360601340600031\250040012014125124303234122113124
\122125123124040102151154147151\040304260154145164
\1511305237151155040166145040102151154151305237151
\155040107303274166145156154151304237151040110151
\172155145164154145162151040101056305236056040050
\143051040113141163\304261\155040040062060060065
end
cka_serial_number multiline_octal
002002\010047
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 "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: E=iletim.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
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\001\11\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\014\114\055\124\162\165\163
\164\040\107\155\142\11\006\014\070\060\045\006\003\125\004\003\014

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363

CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\020\003\033\124\000\003\002\001\002\002\003\011
\132\027\015\062\071\061\061\060\070\063\065\065\065\065\065\132
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105

\000\060\027\015\060\007\011\061\016\060\065\060\070\063\065\065\070
\132\027\015\062\071\016\061\060\065\060\070\063\065\065\070
\006\011\015\013\060\011\006\003\125\004\006\023\002\104\105

\025\060\023\006\003\125\004\012\140\014\114\055\124\162\165\163
\164\040\107\155\142\11\006\014\070\060\045\006\003\125\004\003\014

\103\061\04\105\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\116\163\040\063\040\103\101\040\062\040\062\060\060\071

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
`END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_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

Open Source Used In Crosswork Optimization Engine 4.0.0 13231`
CKA_CLASS CK_OBJECT_CLASS 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 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\367\375\121\075\057
END

CKA_ISSUER MULTILINE_OCTAL
\060\115\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_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

CKA_CLASS CK_OBJECT_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
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154

Open Source Used In Crosswork Optimization Engine 4.0.0 13232
END

# 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

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 "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\014\014\040\055\124\162\165\163 \164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014 \041\104\055\124\123\125\123\124\040\122\157\157\164\040\03\154 \141\163\163\040\006\03\040\010\101\104\006\024\040\010\05\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:b0:8a: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\061\013\060\011\006\003\125\004\006\023\002\123\113\061
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

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 "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\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\13\000\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\163
\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\061\031\060\027\006\003\125
\004\003\023\020\103\101\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

Open Source Used In Crosswork Optimization Engine 4.0.0  13238
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 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\102\061\111\132\061\016\006\003\125\004\013\014
\007\120\111\101\103\103\126\015\060\013\006\003\125\004
\012\014\004\010\103\103\126\061\013\060\011\006\003\125\004\006
\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\016\020\060\016\006\003\125\004\013\014
\007\120\111\101\103\103\126\015\060\013\006\003\125\004
\012\014\004\010\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\267\246\103\177\244\340
END
CKA_VALUE MULTILINE_OCTAL
\060\020\007\132\060\020\000\003\002\001\002\002\010\136
\303\267\246\103\177\244\340\060\015\060\011\052\066\110\206\367
\015\001\000\005\000\006\001\020\061\022\060\020\006\003\125\004
\003\014\011\101\103\103\132\061\061\020\060\016
\007\120\111\101\103\103\126\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\101\060\011\006\003\125\004\006
\023\002\105\123
END

Open Source Used In Crosswork Optimization Engine 4.0.0 13239
CKA_CLASS  CK_OBJECT_CLASS  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"

# 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_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

END
# 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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
00712011311110110311031126061050601306000311250040060230021124127061
02206000230060003125004012010111111271011116
055103101106102006016006003112500401302300711221157
1571640401031010610340600320060031125004003023023
124127103101040107115414214111540401221157157164
040103101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601210610130600110600311250040060230021124127061
02206000230060003125004012010111111271011116
055103101106102006016006003112500401302300711221157
1571640401031010610340600320060031125004003023023
124127103101040107115414214111540401221157157164
040103101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020020141276
END
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)
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

# 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_CLASS CK_OBJECT_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_CLASS CK_OBJECT_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_CLASS CK_OBJECT_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_CLASS CK_OBJECT_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_CLASS CK_OBJECT_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_CLASS CK_OBJECT_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"
# 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_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

# Certificate "E-Tugra Certification Authority"
#
# 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 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\134\240\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
END
CKA_ISSUER MULTILINE_OCTAL
\006\020\162\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\060\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\060\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\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\003\140\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

Open Source Used In Crosswork Optimization Engine 4.0.0 13253
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 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
\060\201\202\061\101\103\060\011\006\003\125\004\006\023\002\104\105
\061\053\125\004\012\014\124\105\123\171\116
\164\151\155\163\304\105\156\164\143\124\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\103\060
\035\006\003\125\004\013\014\026\124\055\123\171\116
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\060\1045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER 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_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
\066\030\061\155\037\111\115\236\031\042\250\034\11\201\126\317\315\273\037
\352\253\221\030\070\257\252\174\025\115\363\266\243\215\245\364
\216\036\042\251\247\350\044\122\255\250\076\000\142\206\210\360\002
\272\234\141\043\346\063\233\060\172\153\066\142\173\255\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332
\001\142\051\242\246\047\161\345\272\327\176\301\157\035\225\160
\040\12\007\064\337\352\377\025\200\345\272\327\172\330\133\165
\174\005\172\051\107\176\100\250\061\023\316\177\315\100\073\264\121
\107\172\056\021\143\177\336\235\146\320\213\335\124\146\63\172
\203\125\352\174\302\051\211\003\351\157\263\136\342\005\204\311
\057\076\170\205\142\186\311\137\301\170\143\164\140\130\300\110\030
\014\231\071\353\244\234\143\314\032\265\171\132\215\025\234\330\024\015
\366\172\007\127\307\042\203\005\055\074\233\040\046\075\030\263
\251\103\174\310\310\253\144\217\016\243\277\034\033\235\060\333
\332\320\031\056\262\074\361\137\063\200\166\344\335\152\50\111
\005\047\216\023\241\156\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
Open Source Used In Crosswork Optimization Engine 4.0.0 13257
# 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\271\134\062\113\254\177\135\146\145\167\224\273\052\167\126

CKA_ISSUER MULTILINE_OCTAL
\060\004\101\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\104\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\104\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062

#
# Certificate "QuoVadis Root CA 1 G3"

Open Source Used In Crosswork Optimization Engine 4.0.0 13259
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
033216352127226051032311071352270121201032163163
30022372171147
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\10\00\01\13\06\00\01\10\06\00\03\12\5\00\04\00\06\02\03\02\10\12\5\015\12\6\14\144
\15\1\63\04\01\14\15\1\64\1\45\14\4\06\03\6\0\03\4\00\003
\12\5\00\00\03\02\05\12\1\65\15\7\1\2\6\14\1\44\15\1\63\04\0\12\2\157
\15\7\1\64\04\0\10\3\1\0\0\06\01\04\10\17\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\24\170\13\01\37\05\25\5\05\4\03\1\13\34\30\06\7\00\7\06\5\06\4\023
\050\26\2\22\6\32\4\14\5\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
CKA_CLASS CK_OBJECT_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_SUBJEC_MULTILINE_OCTAL
\060\10\00\01\13\06\00\01\10\06\00\03\12\5\00\04\00\06\02\03\02\10\12\5\115\12\6\14\144
\15\1\63\04\0\14\15\1\55\115\164\145\144\06\03\6\0\03\4\00\003
\12\5\00\00\03\02\05\12\1\65\15\7\1\2\6\14\1\44\15\1\63\04\0\12\2\157
\15\7\1\64\04\0\10\3\1\0\0\06\01\04\10\17\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\10\00\01\13\06\00\01\10\06\00\03\12\5\00\04\00\06\02\03\02\10\12\5\115\12\6\14\144

# 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\137\165\070\002\005\000\341
\045\365\310\066
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\104\127\064\133\201\211\065\362\165\053\073
\133\247\046\360\165\050
END
CKA_ISSUER MULTILINE_OCTAL
\060\006\010\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\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\121\123\065\362\316\270\053\073
\133\247\046\360\165\050
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 "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
CKA_CLASS CK_OBJECT_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\001\110\006\003\125\004\006\023\002\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\151\155\115\164\145\144\061\036\060\003\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\115\157
\157\164\040\031\101\040\063\040\010\070\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\110\006\003\125\004\006\023\002\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\151\155\115\164\145\144\061\036\060\003\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\115
\157\164\040\010\031\101\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\1356\275
\003\240\317\022\152\035
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\022\003\110\240\003\020\001\100\020\002\024\056
\365\233\002\050\024\7\333\172\377\325\243\251\1356\275
\022\152\035\036\060\015\050\060\111\052\020\110\206\367\015\000\101\013
\005\000\060\111\060\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\114\145\144\061\036\060\003
\100\060\03\125\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\063\040\010\070\063\060\003\027\015
\061\062\060\061\062\062\060\062\060\063\062\132\027\015\064
\062\060\061\061\062\062\060\062\060\063\062\132\060\110\006\013
\060\060\111\060\03\125\004\006\023\002\102\115\061\103\101\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\116\040\114
\151\155\151\116\145\144\061\036\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\010\070\063\060\020\002\042\060\015\006\011\052\026
\110\206\367\015\001\001\000\050\000\003\020\002\017\000\060\020
\002\012\002\020\002\000\0263\313\160\012\147\216\1352\024\227
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
CKA_CLASS CK_OBJECT_CLASS 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\275\222\074\250\034\071\006\347\060\155\047\226\346\244
\131\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\133\721\112\003\227\103\260\327
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
\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\001\100\060\003\125\004\006\023\002\012\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
Open Source Used In Crosswork Optimization Engine 4.0.0

```
# 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
# 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 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
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**Open Source Used In Crosswork Optimization Engine 4.0.0**

13273
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\154\044\240\154\354\060
\121\006\003\001\105\006\023\002\125\006\023\036\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\156
\143\061\031\060\027\066\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
\100\063\031\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
\170\063\060\036\027\015\061\103\060\060\060\060\060\060\060
\060\060\032\027\015\063\070\060\061\065\061\062\060\060
\060\061\032\060\014\061\013\060\011\060\003\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\066\003\125\004
\101\030\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\104\040\042\006\031\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\020\166\060\020\006\007\052
\206\061\103\160\075\002\001\010\060\055\153\021\010\04\05\004\02\003\142\000
\004\031\134\372\274\254\104\145\355\135\127\077\130\033\215\261\127
\251\104\055\005\025\362\357\013\137\020\164\237\265\142\122\137
\146\176\037\345\334\033\105\171\101\133\143\060\123\012\235\215\135
\002\331\251\133\136\002\012\336\225\052\016\215\070\112\212\111
\130\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320
\105\040\017\131\166\020\032\264\240\044\360\055\336\066\362\154\051
\071\124\102\060\100\060\017\066\003\012\253\052\023\001\001\377\004
\005\050\060\039\001\001\377\060\016\060\003\125\035\017\001\001\377
\004\004\003\002\002\012\260\060\035\060\003\125\035\016\004\026\004
\124\031\322\275\251\134\230\005\112\241\115\067\242\203\171\136
\215\035\052\344\204\060\101\060\010\053\021\060\113\316\075\004\003
\003\030\03\147\000\060\144\002\060\045\244\240\105\002\153\022\113
\165\161\147\153\104\343\160\362\165\163\236\174\211\360\317\221
\162\141\236\136\020\222\131\126\271\203\070\20\034\70\035\113
\046\066\175\329\344\064\206\071\002\060\174\066\123\360\060\345
\142\143\072\023\134\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\105\222\225\001\264

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# 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):

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 Assured ID Root G3"

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 Global Root G2"

END

# 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 CKO_CERTIFICATE
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\014\104\115\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\167\167\167\167\167\167\167\167\167
\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\062
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\014\104\115\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\167\167\167\167\167\167\167\167\167
\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\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\125\124\027\030\144\261\035\011\372\345\060
\015\006\010\152\060\110\020\367\015\011\001\013\005\000\060\0141
\061\103\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\030\006\031\125\004\012\023\014\014\104\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\060\036\003\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\017\154\157\142\141\154\040\122\157\157\164\040\107\067
\062\060\036\027\015\061\106\060\070\060\061\061\062\060\060\060
\060\013\020\027\15\063\070\060\061\061\065\061\062\060\060\060
\132\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
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 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):
# Fingerprint (SHA1):

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 "DigiCert Global Root G2"

# 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 CBBOOL 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
06014106110130600000040060023002125\123061
025060023006000312500401202301410415114711511031145
16216404011111561430610310600270006003125004013023
020167167167056144115114711511431451621640561431157
1550610400600036000600312500400302302710415111471151
103145162164040107154157114211411540401122157157164
040107063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06014106110130600000040060023002125\123061
025060023006000312500401202301410415114711511031145
16216404011111561430610310600270006003125004013023
020167167167056144115114711511431451621640561431157
1550610400600036000600312500400302302710415111471151
103145162164040107154157114211411540401122157157164
040107063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020200005\1251262743621136244065065303244017325253\105162
END

CKA_VALUE MULTILINE_OCTAL
0062020200770600202100\1305240003002001002002020005
1251262743621136244065065303244017325253\105162060
0120060100520206103161075004003003600141061013060
011006003125004006023002125123061025060023006003
125004012023014104151114711511031145
1430610310600270006003125004013023020167167167056
1441151147115114314516216405614313157155061040060036
1006003125004003023027104151114711511031145
1430610310600270006003125004013023020167167167056
02701506016300600700600610610620600600600600600132027
0150630700600610610650610620600600600132060141
0611030600110000603125004006023002125123061025060
023000603125004012023014104151114711511031145
1430610310600270006003125004013023020167
1671671670561441151147115114314516216405614313157155061
\040\006\036\006\006\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\107\154\157\124\141\154\040\122\157\157\164\040\107
\063\060\166\060\020\060\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\125\004\003\023\274\040\107\154\000\043
\373\013\177\041\132\360\276\276\163\363\063\135\032\274\064\1352
\336\036\233\274\320\225\366\360\143\320\013\272\141\133\121\106
\176\236\055\237\356\121\143\014\027\354\007\160\365\172\204\105
\100\203\234\350\077\101\155\073\255\353\332\044\024\131\066\170\235
\003\103\356\020\023\154\162\336\256\210\247\241\153\265\103\1316
\147\334\043\377\003\034\324\343\076\243\102\060\100\060\017\006
\003\125\035\023\001\010\137\004\005\060\003\001\001\137\070\060
\060\003\125\035\170\010\001\137\004\004\033\002\001\206\060\1035
\006\003\125\035\160\004\026\004\024\263\333\110\244\371\124\1305
\330\256\066\110\134\021\114\151\114\205\127\113\306\060\012\006
\101\052\206\110\316\075\004\003\030\003\150\000\006\145\002\061
\000\255\274\362\154\077\022\112\321\055\071\303\120\111\227\163
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\236
\062\233\146\222\017\361\134\261\101\121\733\154\253\372\153\177
\240\002\060\071\114\166\303\111\142\151\270\363\120\334\250\325\111
\242\255\307\334\321\111\177\007\010\270\310\020\062\171\116\214\210
\053\252\232\251\122\035\321\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
# 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\221\152\076\146\155\000\034\260\072\323\077\372\331\073
\350\075\064\1236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\312
END
# 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 MULTI_LINE_OCTAL

END

# CKA_ISSUER MULTI_LINE_OCTAL

CKA_SERIAL_NUMBER MULTI_LINE_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
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_CLASS CK_OBJECT_CLASS 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
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 "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

CKA_CLASS CK_OBJECT_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
\060\201\205\061\013\060\000\000\000\125\000\000\000\023\000\002\107\102
\061\033\060\000\031\000\000\003\125\004\010\023\022\107\162\145\141\164
\145\162\140\115\114\116\143\150\145\163\164\145\162\061\102\006
\101\160\000\03\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\000\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\105\03\060\051\006
\003\125\004\03\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_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\201\205\061\013\060\000\011\000\003\125\004\000\000\023\002\107\102
\061\033\060\000\03\100\000\003\125\004\010\023\022\107\162\145\141\164
\145\162\140\115\114\116\143\150\145\163\164\145\162\061\102\006
\101\160\000\03\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\000\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\105\03\060\051\006
\003\125\004\03\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\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END

CKA_VALUE MULTILINE_OCTAL
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\315\172\214\264` END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
`033\061\260\161\100\006\003\14\024\066\221\255\030\076\375\354\030` END
CKA_ISSUER MULTILINE_OCTAL
`06\0201\205\061\013\060\0011\006\003\125\004\006\023\0021\07\102\061\103\060\031\060\003\125\004\010\023\022\107\162\145\141\164\145\162\015\115\141\146\151\143\141\164\151\157\150\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\033\013\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

# Certificate "USERTrust RSA Certification Authority"
# Open Source Used In Crosswork Optimization Engine 4.0.0

# 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):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CK_OKCERTIFICATE
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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

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"

END

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\063\243\162\250\017\341\125\345\265
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\210\066\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\033\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\032\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\033\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\001\375\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):
# 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 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\033\151\164\171\061\036\006\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\103\040\013\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\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\033\151\164\171\061\036\006\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\103\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\134\213\231\305\132\222\161\126\336\315\211\200
\314\046

END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\217\060\020\002\025\240\003\002\001\002\002\020\134
\213\231\305\132\222\161\126\336\315\211\200\314\046
\012\006\010\052\206\110\316\075\004\003\003\060\020\121\006\101\13
\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

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OPEN SOURCE USED IN CROSSWORK OPTIMIZATION ENGINE 4.0.0

[Code Snippet]

```
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
```

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 "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\115\124\131\151\147\156\040\051\033\033\004\122\157\157\164
\040\03\101\040\055\040\122\065\061\023\060\021\060\003\125\004
\012\023\012\071\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\071\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\115\124\131\151\147\156\040\051\033\033\004\122\157\157\164
\040\03\101\040\055\040\122\065\061\023\060\021\060\003\125\004
\012\023\012\071\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\071\154\157\142\141\154\123\151
\147\156
END
```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```
\002\021\140\131\111\134\104\056273\125\371\012\167\212\161\371
\112\330\154
END
```
CKA_VALUE MULTILINE_OCTAL
```
\060\202\002\036\060\202\001\244\240\003\002\001\002\002\021\140
\131\111\134\104\056273\125\371\012\167\212\161\371\112\330\154
\060\091\020\060\105\023\066\110\136\076\004\003\036\060\120\061\044
\060\042\060\033\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\015\033\033\004\122\157\157\164\040\013\010\040
\055\040\122\065\061\023\060\021\060\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\060\036
\027\105\016\062\061\061\106\063\060\060\060\060\060\060\132\027
\015\063\070\060\061\107\106\063\063\061\064\060\060\132\060\120
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\015\033\033\004\122\157\157\164\040\010
\101\040\055\040\122\065\061\023\060\021\060\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\060\023\060\021\006
\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156
\060\166\060\020\006\007\052\026\110\136\075\002\001\006\005\053
\201\004\004\004\023\012\060\004\107\105\016\226\373\175\135\277
\351\107\132\111\137\023\071\132\266\325\173\036\222\072\110\131\034
\360\142\061\055\300\172\050\376\032\247\134\263\266\314\227\347
\105\124\130\372\321\167\155\103\242\300\027\145\064\012\037\172
```
# 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"
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
\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\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\071\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\071\154\157\142\141\154\123\151
\147\156
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BEGIN
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371\
\112\030\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):
CKA_CLASS CK_OBJECT_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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\032\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\140\141\164\140\141\164\140\141\164\140\141\164\140\142\122\121\157\164\164\103\010\104\005\010\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\032\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\140\141\164\140\141\164\140\141\164\140\141\164\140\142\122\121\157\164\164\103\010\104\005\010\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371\
\112\030\154
END
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 "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_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\060\101\030\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
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE 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: 100000020 (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_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\130\026\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\322\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\144\145\162\040\116\145\144\145\154\141\156\144\145\156\061\051\060\047\000\003\125\004\003\140\040\123\164\141\141\164\040\144\145\162\040\116\145\144\145\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:01:04:28:00:00:00:01:45:23: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
CKA_CLASS CK_OBJECT_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\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\000\003\125\004\012\023\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
\141\154\040\122\157\157\164\040\103\101\104\061
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
\022\060\020\000\003\125\004\012\023\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
\141\154\040\122\157\157\164\040\103\101\104\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\110\240\003\002\001\002\002\020\012

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\060\016\006\000\125\035\017\000\01\037\004\004\000\003\000\002\000\001\006
\060\017\006\000\013\025\035\023\000\01\037\007\004\005\000\003\000\001
\037\060\035\000\000\125\035\016\004\026\000\004\024\355\104\031\300
\323\360\006\213\356\244\173\276\102\347\046\124\310\216\066\166
\060\015\006\011\052\206\110\206\067\015\000\01\030\005\000\000\003
\202\000\002\000\009\015\256\220\062\246\113\174\041\166\031\114
\036\047\050\015\016\006\003\125\035\017\001\001\377\004\004\003\002
\017\006\003\125\035\016\020\234\246\113\174\041\166\031\114
\150\010\341\224\000\01\030\005\006\056\056\176\123\122\214\266\134\007
\352\210\272\231\131\120\224\327\202\200\037\141\001\001\000\023\255
\015\020\244\363\163\013\362\067\224\170\260\013\234\263\242\163\270
\217\005\223\207\035\135\215\076\260\270\373\300\017\261\362\354\055
\055\033\014\354\252\232\263\252\140\202\033\055\073\303\020\047\05
\127\212\226\036\302\165\270\032\060\031\51\040\01\023\220\323\216
\124\361\115\151\146\300\013\156\164\003\010\243\353\025\017\163\020\037\167
\234\006\350\031\024\070\030\013\152\222\355\311\135\045\236\155\372
\251\135\024\070\064\320\013\173\332\355\120\363\065\277\355\353
\024\15\061\071\340\364\332\361\207\234\342\110\342\306\030\067
\373\006\020\372\165\131\146\061\110\051\132\166\232\034\351\202
\256\357\232\271\121\136\72\104\33\232\15\125\114\074\345\125\200
\066\327\124\000\237\361\127\135\316\324\043\153\73\301\050\024\112
\133\145\357\211\014\335\024\247\040\313\030\245\045\264\015\371
\000\136\024\232\223\364\000\310\164\216\241\052\110\216\145\333\023
\034\342\045\027\175\353\276\207\133\027\040\124\121\122\112\123
\003\030\135\341\013\312\063\355\142\375\105\037\051\333\334\130\240
\200\071\346\372\327\376\023\024\246\355\075\224\112\102\164\324
\303\167\131\163\315\171\106\276\125\070\357\372\350\221\062\352
\227\130\004\042\336\070\033\031\247\155\311\063\072\152\021\151
\077\240\310\352\162\217\241\143\020\043\327\155\074\226\236\225
\134\011\11\142\252\242\271\052\033\234\066\201\170\355\033\035\0106
\342\046\131\104\165\036\333\165\211\121\135\020\204\235\141\140
\313\135\371\227\042\115\216\230\346\343\177\366\133\273\256\315
\131\211\201\153\136\013\363\121\341\164\053\351\176\047\247\331
\231\111\116\370\245\200\333\045\017\034\143\142\212\311\063\147
\153\074\020\033\065\255\336\250\315\026\215\153\360\007\067\161
\237\362\253\374\101\165\301\213\354\000\067\135\011\345\116\200
\057\372\261\134\070\006\245\033\112\341\133\070\055\074\334\253
\037\220\032\335\215\123\345\362\116\154\314\135\064\127\370\030
\127\204\156\207

END

CKA_NSS_MOZILLA_CA_POLICYCK_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_CLASS CK_OBJECT_CLASS 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"

# Certificate "IdenTrust Public Sector Root CA 1"
#
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:00:01:45:23: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_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_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:01:42:80:00:00:00:01:45:23: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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
CKA_ISSUER MULTILINE_OCTAL
06:01:15:06:01:13:06:00:01:10:06:00:03:125:00:04:00:06:02:30:02:125:123:061
02:22:06:00:02:00:00:00:03:125:00:04:01:02:30:11:11:14:14:14:15:0:22:162
16:51:13:16:40:01:05:20:60:00:00:06:00:03:125:00:04:00:03:02:30:44:11:11:14:4
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00:02:02:01:01:10:02:00:00:00:00:00:01:05:0:43:31:17:06:17:4:00:00:0
00:00:02
# 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\020\276\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\000\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\003\125\004
\013\023\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\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\067\010\040\105\156\164\162\165\163\164\154\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\162\160
\150\061\000\125\004\003\023\051\110\155\164\162\165\163\164\140
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\164\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062

END

CSA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\020\276\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\000\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\003\125\004
\013\023\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\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\067\010\040\105\156\164\162\165\163\164\154\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\162\160
\150\061\000\125\004\003\023\051\110\155\164\162\165\163\164\140
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\164\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062

END

OSUSEDIXCROSSWFOPTIMIZATIONENGINE4.0.0 13312

CKA_CLASS CK_OBJECT_CLASS 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
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END

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\105\156\164\162\165
\163\164\054\040\111\115\164\135\006\015\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\164\156\057\154\145\147\141\154\055\164\145\162
\155\163\060\117\060\067\006\003\125\004\013\023\060\050\143\030\051
\040\062\060\060\071\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
\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
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 - 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):
Open Source Used In Crosswork Optimization Engine 4.0.0  13316
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=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):
CKA_CLASS CK_OBJECT_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\13\066\011\066\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\0023\006\003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117\117\124
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\101\060\011\066\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\0023\006\003\125\004\003\014\014\103\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\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030\112\314\326\060\015\006\011\052\206\110\026\367\015\001\001\013\005\000\060\126\061\103\060\011\006\003\125\004\006\023\021\013\116\061\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\154\040\103\145\162\164\151\146\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\025\060\0023\006\003\125\004\003\014\014\103\106\103\101\040\105\126\040\122\117\117\124
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\004\030\112\314\326
END

# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184acc6)
# 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

CKA_CLASS CK_OBJECT_CLASS 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"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270
\071\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\013\060\011\006\003\125\004\006\023\002\010\033\116\061
\060\060\056\006\003\125\004\012\014\047\013\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\003\013\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\023\006\003\125\004\003\014\014\103\106\010\011
\040\015\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
# 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 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE_CTL_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\011\006\003\125\004\012\014\047\013\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\003\013\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\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124
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 "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):
CKA_CLASS CK_OBJECT_CLASS 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

Open Source Used In Crosswork Optimization Engine 4.0.0 13324
# 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
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_ISSUER 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
\134\152\000\310\074\070\216\130\257\002\003\001\000\001\243\102
\060\100\060\017\006\003\125\035\023\020\011\037\004\005\060\003
\001\100\137\060\016\006\003\125\035\017\001\001\137\004\004\003
\002\000\100\060\035\006\003\125\035\016\004\026\004\002\024\056\026
\251\112\030\026\331\133\143\365\157\120\363\043\137\370\135\347\254
\360\310\100\060\151\052\206\110\206\367\015\001\001\013\005
\000\000\032\020\001\000\000\265\163\370\003\334\131\133\035\166\351
\243\052\173\220\050\262\115\300\063\117\252\232\261\324\270\344
\047\777\251\226\231\316\106\340\155\174\114\242\070\244\006\160
\360\364\101\021\135\077\107\215\077\162\207\371\073\375\244\157
\053\123\000\340\377\071\271\152\007\016\353\035\034\366\242\162
\220\313\202\075\212\202\213\322\273\237\052\257\041\346\143\320\06
\235\171\031\357\367\273\014\065\220\030\212\355\117\017\365\314
\022\331\244\076\273\240\374\040\225\137\110\046\057\021\043\203
\116\165\007\017\277\233\321\264\035\351\020\004\376\312\140\217
\242\114\270\255\317\341\220\017\315\256\012\307\135\173\267\120
\322\242\141\172\325\025\333\327\237\207\121\124\353\245\343\355
\311\205\240\045\040\067\373\217\163\161\014\064\204\343\074\201\262
\167\116\103\245\210\137\206\147\241\075\346\264\134\141\266\076
\333\376\267\050\305\242\007\256\265\312\212\215\052\022\235\227
\355\302\060\244\311\052\212\373\333\150\043\033\231\063\064\240
\056\363\251\013\077\324\135\341\317\204\237\342\031\302\137\212
\326\040\036\343\163\267
END
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

# 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_Bool CK_TRUE
CKA_PRIVATE CK_Bool CK_FALSE
CKA_MODIFIABLE CK_Bool CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
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\211\260\044\261\214\261\007\176\211\236\121\236\231
# 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
06002100000110000000000000000030125000400060230021201114
060100020500040006000000301250004012023003112511511172145
16415710401241451431501561157154115714711511145163040
1230561010560610470600450060031250004013023036103
145162164165155040103145162164151154115111411641
151115715604010116516415015716215111641171061044060
042006003125000400302303301301451621641651155040124
16216516316414514404011611451641671571621530400103
1011040062
END
# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# 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
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\161\145\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\165\183\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
\215\351
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 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\001\11\006\003\125\004\006\023\002\107\122
\061\170\060\015\006\003\125\004\007\023\006\101\164\150\145\151\156
\163\061\104\060\102\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\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\151\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_ID UTF8 "0"
\260\250\244\106\052\370\353\022\354\162\264\357\370\053\176\214
\122\300\213\204\124\371\057\076\343\125\250\334\146\261\331\341
\137\330\263\214\131\064\413\244\253\117\154\273\037\030\333\165
\253\330\313\222\315\224\070\141\016\007\006\037\113\106\020\361
\025\276\215\051\340\073\112\053\201\171\017\264\151\237\111\120
\227\115\367\016\126\135\300\225\152\230\026\66\303\033\150\311\365
\052\334\107\232\276\262\231\63\045\350\372\003\271\332\371\026
\156\221\204\365\034\050\310\374\046\314\327\034\220\126\247\137
\157\072\004\274\315\151\170\211\013\216\017\057\243\252\117\242\033
\022\075\026\010\100\017\136\106\114\327\252\173\010\30\012\365
\155\047\336\002\217\312\303\265\053\312\331\353\310\041\123\070
\245\314\073\330\167\067\060\242\117\331\115\321\362\010\255\101
\172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203
\112\245\163\040\300\072\225\220\361\232\044\216\331\216\161\132
\173\270\206\332\262\217\231\076\035\023\015\022\021\356\324\253
\360\351\025\160\002\234\034\037\252\040\036\133\141\205\144\100
\251\220\227\015\255\123\332\123\032\057\175\000\227\145\142\264
\276\157\152\247\365\054\102\355\062\255\266\041\236\276\274
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 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\033\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122

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# 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

END

# 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

END
\101\350\113\202\204\134\342\370\061\021\231\206\144\116\011\045
\057\235\101\057\012\256\065\117\164\225\262\121\144\153\215\153
\346\077\160\225\360\005\104\107\240\162\207\012\019\166\225\002\132
\216\256\050\236\371\055\116\231\135\054\110\157\114\045\051\1350
\321\161\133\337\035\301\116\067\264\327\372\173\172\102\234\152
\012\126\132\174\151\103\252\200\110\044\154\176\301\106\243\102
\060\010\060\017\006\003\125\035\023\001\101\377\004\005\060\003
\001\001\377\006\016\060\003\125\035\017\001\001\377\004\004\003
\002\001\060\003\035\006\003\125\035\016\004\026\004\024\264\042
\013\202\231\044\001\016\234\1273\344\016\375\277\373\227\040\223
\231\052\060\012\006\010\052\206\103\161\075\004\003\002\003\147
\009\060\144\002\260\147\316\026\142\207\024\254\142\105\247\251
\225\044\300\032\047\234\062\073\300\030\032\252\272\251\347\370\004
\103\123\205\356\122\041\336\235\365\045\203\076\236\130\113\057
\327\147\023\016\041\002\066\005\341\165\001\336\150\355\052\037
\115\114\011\010\015\354\113\255\144\027\050\347\165\316\105\145
\162\041\027\133\042\010\016\214\023\230\070\232\214\155\233\312
\342\174\352\021\130\042\221
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
# 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
\237\361\161\215\222\027\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\032\365\341\113\015\101\173\111\222\376\357
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\011\006\003\125\004\006\023\002\107\122
Open Source Used In Crosswork Optimization Engine 4.0.0

# 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 MULTI_LINE_OCTAL
\061\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\017\060\015\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\11\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\154\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\104\060\012\006\003\125\004\000
\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\11\156\163\164\151\164\165\161\157\156\163\040\105\103
\013\040\122\157\157\164\103\101\040\062\060\061\065
END

CKA_SERIAL_NUMBER MULTI_LINE_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
# 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\245\007\152\061\362\035\045\066\065\313\003\235
\103\051\245\350

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116

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\011\156\164\145\162\156
\145\164\040\123\145\124\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_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\020\020\031\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
# 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
\065\120\065\007\262\025\304\142\031\342\250\232\133\102\231
\054\14\054\040
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\073\336\213\134\046\024\367\113\357\223\373\237\100\225\155\061\124\374\102\323\307\037\043\255\331\107\110\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\043\021\103\160\232\165\156\127\010\324\220\256\270\330\160\024\302\323\201\253\206\366\034\223\103\167\146\141\300\271\350\101\327\227\170\140\003\156\112\162\256\245\322\175\272\020\236\206\154\033\212\271\1\301\063\370\353\304\202\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
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067
\103\306\277\256\354\136\374\067\221\017\034\156\131\375\301\314\1\152\156\336\026
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\136\374\057\030\306\210\150\060\037\4\310\346
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\010\13\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\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\137\231\127\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

Open Source Used In Crosswork Optimization Engine 4.0.0 13348
# 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\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\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\106\020\003\051\124\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\150\006\011\105\2\061\102\063\367\015\001\014\0005
\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\101\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
\061\065\060\065\062\066\060\060\060\060\060\132\027\015\064
\060\060\060\065\062\066\060\060\060\060\132\060\017\1061\013
\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006
\03\125\004\012\023\006\101\155\141\172\157\156\061\103\060\027
# 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\104\226\265\170
\317\107\113\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\052\131\174\236\046\277\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\013\060\001\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\004\101\155\141\172\157\156
\060\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\101\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\170\170
\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
CKA_CLASS CK_OBJECT_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\013\060\001\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\004\101\155\141\172\157\156
\060\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\101\101\040\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\013\060\001\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\004\101\155\141\172\157\156
\060\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\101\101\040\063
# 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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\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\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\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):
# 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 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
\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
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
# 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):

# 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
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;Symantec Class 1 Public Primary Certification Authority - G6&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE</td>
<td>CK_Certificate_TYPE CKC_X_509</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8 &quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>
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\070\063\061\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060
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\061\013\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\060\033\060\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\033\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\103\145\162\164\151
# 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
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\123\121\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
\v06\v0f\v06\v06\v06\v03\v12\v05\v04\v01\v02\v03\v12\v13\v14\v15\v16\v17\v18\v19\v1a
\v1b\v1c\v1d\v1e\v1f\v20\v21\v22\v23\v24\v25\v26\v27\v28
\v29\v2a\v2b\v2c\v2d\v2e\v2f
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\v0\v0e\v00\v0e\v01\v03\v06\v01\v11\v06\v03\v12\v05\v04\v06\v03\v12\v13\v14\v15\v16\v17\v18
\v19\v1a\v1b\v1c\v1d\v1e\v1f\v20\v21\v22\v23\v24\v25\v26\v27
\v28\v29\v2a\v2b\v2c\v2d\v2e\v2f
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
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 (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_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\315\126\105\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\000\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012\140\141\104\105\124\162\165\163\164\104\107\155\124\101\122\125\040\103\101\104\063\104\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
# 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\010\013\060\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\157\143\141\145\145\151\106\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\154\040\102\151\154
\151\155\163\145\154\040\166\145\140\124\153\151\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
\060\053\006\003\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\106\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\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\010\013\060\001\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\157\143\141\145\145\151\106\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\154\040\102\151\154
\151\155\163\145\154\040\166\145\140\124\153\151\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
\060\053\006\003\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\106\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\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_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\145\060\020\003\113\240\003\002\001\002\002\001\001
\060\015\000\006\011\005\220\061\110\106\367\015\001\001\013\005\000\060
\020\1\122\061\13\060\011\006\003\125\004\006\023\002\124\122\061
\030\060\026\006\003\125\004\007\23\17\107\145\142\172\145
\055\040\113\157\143\141\145\154\151\106\102\060\100\006\003\125
\004\012\023\071\124\165\162\153\151\171\145\154\010\121\151\154\151
\155\163\145\154\040\166\145\140\124\153\151\156\157\154\157
\155\163\145\154\040\166\145\140\124\153\151\156\157\154\157
\155\163\145\154\040\166\145\140\124\153\151\156\157\154\157
\155\163\145\154\040\166\145\140\124\153\151\156\157\154\157
\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165\162

Open Source Used In Crosswork Optimization Engine 4.0.0 13367
Open Source Used In Crosswork Optimization Engine 4.0.0 13369
# 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):

# 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 "GDCA TrustAUTH R5 ROOT"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\061\142\061\013\060\060\011\100\060\003\125\004\006\023\002\010\3\116\061\062\060\060\060\003\125\004\012\014\051\117\125\011\116\107\040\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105\104\010\125\124\110\117\122\111\112\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\010\040\124\162\165\163\164\101\125\124\110\040\122\065\040\123\165\126\165\155\040\061

END

CKA_ID UTF8 "0"
# 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\140\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\104\045\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
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\122\736\360\107\352\172
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# 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:ee: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_ID UTF8 "0"

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 "TrustCor RootCert CA-1"
# CKA_ID UTF8 "0"

END

Open Source Used In Crosswork Optimization Engine 4.0.0 13374
Open Source Used In Crosswork Optimization Engine 4.0.0  13375

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\363\003\260\031

CKA_VALUE MULTILINE_OCTAL
\060\202\004\060\060\202\003\030\240\003\002\001\002\002\011\000
\332\233\354\161\363\003\260\031\060\015\006\011\052\206\110\206
\367\015\001\010\13\005\000\060\202\244\061\013\060\011\006\003
\125\004\006\023\002\120\101\061\170\060\15\060\031\250\004\010
\014\000\6\120\141\156\141\155\141\061\024\060\022\006\003\125\004
\007\014\013\120\141\156\141\155\141\040\013\151\164\171\061\044
\060\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157
\162\140\123\171\163\164\145\155\163\040\123\056\040\144\145\040
\122\056\114\056\061\047\060\045\060\003\125\004\013\014\036\124
\162\163\164\103\157\162\040\131\145\162\164\151\114\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\013\101\055\061\060\036
\027\015\061\060\060\062\060\064\061\062\063\062\061\066\132\027
\015\062\071\061\062\063\061\061\067\060\062\063\061\066\132\060\201
\244\061\013\060\011\006\003\125\004\006\023\002\120\101\061\017
\060\015\006\000\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\013\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\151\163
\040\123\056\040\144\145\040\122\056\114\145\060\104\07\060\045\006
\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103
\145\151\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\010\055\061\060\020\002\010\042\060\015\006\011\052\206\110
\206\167\7\015\001\010\100\010\050\000\032\102\001\001\07\000\060\020\001
\012\002\020\001\000\000\277\126\267\125\134\123\006\123\171\125\134
\001\070\017\001\030\125\33\131\252\150\000\234\174\200\071\120\0173
\216\134\104\004\064\127\126\122\133\043\012\114\111\045\102\004\123\0235
\106\32\130\131\112\26\116\033\056\054\016\070\163\032\145\150\034
\124\132\105\036\036\123\111\027\273\022\64\164\076\151\131\135\1265
\170\245\006\274\325\000\136\011\012\136\204\172\122\137\40\55\1235
\261\135\262\121\111\044\363\032\123\33\131\122\355\014\044
\272\271\236\354\167\000\164\372\223\255\154\051\122\225\161\121\264
\273\323\127\277\263\363\250\125\234\136\044\11\103\052\132\262\131\236
\364\236\137\236\300\176\102\072\347\013\225\123\33\267\150\016\220
\114\373\160\072\217\112\054\224\363\046\353\143\151\125\112\224\330
\102\011\165\035\107\010\220\231\033\027\115\271\115\154\165\357\140\225
\021\216\041\200\206\275\254\201\63\33\30\202\62\167\304\105\352\132
\046\373\141\61\66\037\000\060\037\141\155\017\125\305\020\267\020
\126\162\006\007\124\536\326\103\02\003\051\144\016\125\132\212\02326
\206\160\033\044\336\376\050\212\053\201\152\260\037\141\72\242\334
<table>
<thead>
<tr>
<th>CKA_CLASS</th>
<th>CK_OBJECT_CLASS</th>
<th>CKO_NSS_TRUST</th>
</tr>
</thead>
<tbody>
<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>&quot;TrustCor RootCert CA-1&quot;</td>
</tr>
</tbody>
</table>

# 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
# 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
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "TrustCor RootCert CA-2"
# Certificate_Type CK_Certificate_Type CKC_X_509
# Subject MULTILINE_OCTAL
06020114 01010000 321354 16 363000 32 00 31
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 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
06020114 01010000 321354 16 363000 32 00 31
END

# 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
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "TrustCor RootCert CA-2"
# Certificate_Type CK_Certificate_Type CKC_X_509
# Subject MULTILINE_OCTAL
06020114 01010000 321354 16 363000 32 00 31
END

# 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
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "TrustCor RootCert CA-2"
# Certificate_Type CK_Certificate_Type CKC_X_509
# Subject MULTILINE_OCTAL
06020114 01010000 321354 16 363000 32 00 31
END

# 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
# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "TrustCor RootCert CA-2"
# Certificate_Type CK_Certificate_Type CKC_X_509
# Subject MULTILINE_OCTAL
06020114 01010000 321354 16 363000 32 00 31
Open Source Used in Crosswork Optimization Engine 4.0.0  13379
# 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"
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\307\101\052\273\067\122\105\144
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\031\006\003\125\004\006\023\002\120\010\061\017\060\155\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:00:84:82:2e: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\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\010\240\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\033\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\012\035\060\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\013\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\103\101\055\061
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\17\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\013\120\141\156\141
\155\141\040\033\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\012\035\060\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\013\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\103\101\055\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\060\020\202\003\010\240\003\002\001\002\002\011\000
\204\020\054\137\034\142\320\100\006\015\006\011\052\206\110\206
\367\015\000\001\013\005\000\006\201\234\061\013\060\011\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
\007\014\013\120\141\156\141\155\141\040\013\151\164\171\061\044
\006\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\140\036\124
\162\165\163\164\103\157\162\040\123\145\164\151\146\151\143
\141\146\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\013\101\055\061\060\036\027\015\061\066\060\062\060\064
\061\062\063\062\063\063\132\027\015\062\071\061\062\062\063\061
\067\062\070\060\067\132\060\201\234\061\013\060\011\006\003\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 "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: 00:84:82:2e: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:84:00: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\226\151\115\334\007\214\212\223\242\337\237\017\075\213\140\264\202\215\252\010\116\142\105\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

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\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\155\141\040\103\151\164\171\061\044\060\042\006\000\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\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\101\000\204\202\054\137\034\142\320\100
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# 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
CK_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\012\060\010\022\006\022\003\022\002\002\010\173\054\022\003\002\001\002\002\010\171
\020\123\101\057\162\160\157\162\164\010\122\123\101

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\174\061\012\060\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010
\020\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010
\000\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010\010
\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123\123

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\003\023\005\023\007\023\009\023\011\023\013\023\015\023\017\023\019\023\021\023\023

END

CKA_VALUE MULTILINE_OCTAL
\060\040\005\335\060\022\003\025\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\173\054\233\023\026\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020

END

CKA_VALUE_MULTILINE_OCTAL
\060\022\005\335\060\022\003\025\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023\023

END
# 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

CKA_NSS_EMAIL_DISTRUST_AFTER 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
# 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 CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\13\060\01\11\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\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\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\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\036\027\015\061\066\062\061\062\061\070\061\064\060\060
\063\132\027\015\064\061\060\062\061\062\061\070\061\064\060\063
\132\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123
# 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"
# 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):

# Certificate 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

# Certificate MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END

# Certificate 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\156\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

# Certificate Serial Number MULTILINE_OCTAL
\002\010\165\346\033\313\301\150\133\250
END

# Certificate Trust Server Auth CK_Token CK_BBOOL CK_TRUE
# Certificate Trust Email Protection CK_Token CK_BBOOL CK_TRUE
# Certificate Trust Code Signing CK_Token CK_BBOOL CK_FALSE
# Certificate Trust Step Up Approved CK_BBOOL CK_FALSE

# Certificate Class CK_OBJECT_CLASS CK_TRUE
# Certificate Token CK_BBOOL CK_TRUE
# Certificate Private CK_BBOOL CK_FALSE
# Certificate Modiifiable CK_BBOOL CK_FALSE
# Certificate Label UTF8 "SSL.com EV Root Certification Authority RSA R2"

# Certificate Subject MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\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

# Certificate 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\156\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

# Certificate Serial Number MULTILINE_OCTAL
\002\010\165\346\033\313\301\150\133\250
END

# Certificate Trust Server Auth CK_Token CK_BBOOL CK_TRUE
# Certificate Trust Email Protection CK_Token CK_BBOOL CK_TRUE
# Certificate Trust Code Signing CK_Token CK_BBOOL CK_FALSE
# Certificate Trust Step Up Approved CK_BBOOL CK_FALSE

# Certificate Class CK_OBJECT_CLASS CK_TRUE
# Certificate Token CK_BBOOL CK_TRUE
# Certificate Private CK_BBOOL CK_FALSE
# Certificate Modiifiable CK_BBOOL CK_FALSE
# Certificate Label UTF8 "SSL.com EV Root Certification Authority RSA R2"

# Certificate Subject MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\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
Open Source Used In Crosswork Optimization Engine 4.0.0

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 "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):

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\123\023\023\112\112\122\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\123\023\023\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112\112

END
CKA_ISSUER  MULTILINE_OCTAL
\060\020\120\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\060\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\010\157\162\160\157\162\141\154\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
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):
# 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 "SSL.com EV Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE  CKC_X_509

CKA_SUBJECT  MULTILINE_OCTAL
\060\017\061\013\060\011\006\003\125\004\006\023\002\125\123
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\020\060\016\006\003\125\004\007\140\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\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\123
END

CKA_ID  UTF8 "0"
Open Source Used In Crosswork Optimization Engine 4.0.0

# 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_CLASS CK_OBJECT_CLASS 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 ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221
\307\106\102\155

CKA_ISSUER MULTILINE_OCTAL
\060\177\060\110\060\110\060\03\125\03\017\001\001\377\004\004\003\002
\000\060\145\002\061\100\100\213\346\100\211\106\353\351\325\023\331
\312\324\153\044\363\260\075\207\106\130\032\354\261\337\157\373
\126\272\160\153\307\070\314\350\261\214\170\173\367\361\147\166
\101\103\320\036\121\217\002\060\075\366\043\050\046\114\306\140
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045
\074\246\032\205\133\363\022\017\154\356\145\212\311\207\250
\371\007\340\142\232\214\134\112
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_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
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 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_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\004\060\036\003\000|\125\004|013\023\027\107\154\157
|\142|\141|\154|\123|\151|\147|\156|040|\122|\157|\157|\157|\164|040|010|\101\040
|\055|\040|\122|\060|\061\023\060\021|\006\003|\125|\004|012|\023|\012\017
|\154|\157|\141|\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|010|\101\040
|\055|\040|\122|\060|\061\023\060|021|\006\003|\125|\004|012|\023|\012\017
|\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|\022|\005|\203|\060|022|\003|\153|\240|\003|002|001|002|002|016|105
\346|273|\003|\203|\063|\303|205|\145|\110|\346|377|\105|\121|\060|\150|006
|\011|\052|\206|110\063|\367|\150|\001|\019|\014|005|000|000|060|14|06|1040
|\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|010|\101\040
|\151|\147|\156|040|\122|\157|\157|\164|040|010|\101\040
|\061|\023|\060|021|\006\003|\125|\004|012|\023|\012\017
|\061|\023|\060|021|\006\003|\125|\004|012|\023|\012\017
|\154|\157|\142|\141|\154|\123|\151|\147|\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 "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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\021\234\037\335\325\237\002\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
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\000\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
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 05:33 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 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\001\100\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
\004\000\003\002\002\001\001\000\006\060\017\000\066\003\125\035\023\001\001\137\77\004
\005\060\000\003\001\001\137\77\060\035\066\003\125\035\016\000\040\26\004
\024\10\20\07\02\02\53\34\33\23\22\20\14\04\07\02\32\27\31\21\11\35\6\323
\25\52\14\26\41\10\14\6\00\06\02\00\06\01\10\05\30\00\01\00\01\20\2\067
\02\50\01\00\40\00\30\02\00\10\00\00\06\00\12\00\06\01\05\22\20\06\11\03\16\075
\00\40\00\3\03\0\0\15\00\00\06\14\5\02\06\06\04\6\07\15\11\33\34\325
\34\72\62\34\7\31\01\14\21\14\2\03\33\51\17\11\14\03\14\33\25\31\1\22
\22\41\16\11\5\20\1\12\16\3\03\2\6\2\20\2\04\2\1\4\0\5\30\0\11\14\13\21\155
\11\10\5\14\0\1\2\0\23\34\2\17\6\11\03\35\14\4\0\0\2\0\6\1\00\03\33\0\6\4\040
\06\2\10\3\7\7\23\1\1\1\0\2\26\6\10\33\6\02\24\5\7\3\15\1\5\2\3\1\16\1\215
\03\2\7\7\2\1\3\3\2\7\30\4\2\6\6\2\0\6\0\3\4\0\7\2\0\7\2\2\1\6\2\1\3\175\302
\2\4\2\3\5\35\17\3\2\6\2\0\1\1\7\0\1\0\1\13\12\0\7\1\275
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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\34\021\20\136\064\33\62\26\21\0\1\13\23\1\23\1\36\6\02\6\04\6\32\1\22
\03\73\03\1\27\1\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\25\13\26\2\7\1\05\5\05\7\22\3\144\37\0\24\5\11\3\12\2\2\1\35\1\15\00\07\043
END
CKA_ISSUER MULTILINE_OCTAL
\06\01\5\06\1\01\3\06\0\01\1\00\0\03\1\25\0\04\0\06\0\2\03\0\2\1\0\3\1\10\061
\02\0\0\0\1\0\0\0\0\0\3\1\25\0\0\4\0\2\0\2\0\7\1\2\1\1\1\1\2\3\1\1\4\5\1\13\145
\17\1\0\1\0\4\2\0\0\0\0\0\0\3\1\25\0\0\4\0\1\3\0\2\3\0\1\1\7\1\1\1\1\2\3\1\124
\10\5\0\4\0\1\0\1\5\1\16\5\1\14\4\1\1\6\1\5\1\1\5\6\0\4\0\1\0\5\1\6\1\144
\15\7\1\2\1\6\3\1\4\5\1\4\0\6\1\0\5\0\0\2\0\6\0\0\6\0\0\3\1\25\0\0\4\0\0\3\0\2\3\07
\1\7\1\1\1\1\1\2\4\1\5\0\4\0\1\2\7\1\1\1\2\3\1\4\5\1\13\1\4\5\1\7\1\0\4\1\0\7\1\54
\1\5\7\1\4\2\1\4\1\1\5\0\4\0\1\2\2\1\5\7\1\1\6\4\0\0\1\0\7\1\0\3\0\4\0\1\0\3\1\01
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
# 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_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 "UCA Global G2 Root"

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 Optimization Engine 4.0.0
END

# 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

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_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\031\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\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\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
\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):
CKA_CLASS CK_OBJECT_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\017\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\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
\164\151\157\156\040\122\157\157\164
# 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\77
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\060\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\100\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\060\104\056\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\017\064\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\011\173\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\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 "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dbhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dbhimyotis,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):
# 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 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\001\110\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\141\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\140\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\060\061\031\060\027\006\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\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\141\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\140\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\060\061\031\060\027\006\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\0333\211\036\125\003\015\243\346\101\155\304\343\246\341
\343\246\341
END

CKA_VALUE MULTILINE_OCTAL
\060\020\006\133\060\020\004\103\240\003\002\001\002\000\021\000
\312\351\033\211\036\125\003\015\243\346\101\155\304\343\246\341
\060\001\050\006\011\052\061\110\063\071\150\001\001\130\005\000\006
\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061\022
\060\062\000\060\031\125\004\012\101\040\150\151\155\171\157\164
\151\163\061\034\060\032\006\003\125\004\013\140\023\060\060
\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
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):

еча CKA_CLASS CK_OBJECT_CLASS 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\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\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\106\060\060\063
\060\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\031\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_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\013\060\011\006\003\125\004\006\023\002\022\011\011\016\001\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\010\040\055\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\022\011\011\016\001\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\010\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\202\003\224\060\020\002\174\240\003\002\001\002\002\012\061\036\027\015\061\070\060\062\061\070\061\070\063\060\060\060
\060\132\020\015\064\063\060\062\061\070\061\070\063\060\060\060
\060\016\060\027\015\061\070\060\062\061\070\061\070\063\060\060\060
\060\013\020\015\064\063\060\062\061\070\061\070\063\060\060\060
\013\206\060\147\061\013\060\011\006\003\125\004\006\023\002\011\116
\016\120\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\151\165\144\150\162\141\040\145\143\150\156\157\154\157\147
\171\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\006\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\157\164\040\103\010\040\055\040\070\061\060\020\001\004\020\060\015
# 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"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\212\307\255\217\163\254\116\301\265\165\115\245\100\364\374\317
\174\265\216\214
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\001\110\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\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=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_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 "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):
# 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 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\103\162\321\237\210\216\320\120\003\350\343\270\213\147\100
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\006\101\130\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\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:bac: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\003\010\006\000\101\006\000\031\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\120\060\022\060\003\125\004\012\023\013\145
\115\165\144\150\162\141\140\111\115\143\061\034\060\032\060\033
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\010\040\055\040\103\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\126\006\010\130\060\011\006\000\031\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\120\060\022\060\003\125\004\012\023\013\145
\115\165\144\150\162\141\140\111\115\143\061\034\060\032\060\033
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\010\040\055\040\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\370\103\262

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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 "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\313\206\117\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\137\217\013\260\337\272\322\356\052\137\150
END
CKA_ISSUER MULTILINE_OCTAL
\060\126\061\103\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\000\039\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_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_TRUST_EMAIL_PROTECTION</td>
<td>CK_TRUST</td>
</tr>
<tr>
<td>CKA_TRUST_CODE_SIGNING</td>
<td>CK_TRUST</td>
</tr>
<tr>
<td>CKA_TRUST_STEP_UP_APPROVED</td>
<td>CK_BBOOL</td>
</tr>
<tr>
<td>CKA_NSS_TRUSTED_DELEGATOR</td>
<td>CKT_NSS_TRUSTED_DELEGATOR</td>
</tr>
<tr>
<td>CKA_NSS_MUST_VERIFY_TRUST</td>
<td>CKT_NSS_MUST_VERIFY_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;emSign ECC Root CA - C3&quot;</td>
</tr>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8 &quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>

Certificate "emSign ECC Root CA - C3"

Issuer: CN=eMudhra Inc,OU=emSign PKI
Subject: CN=eMudhra Inc,OU=emSign PKI
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_CLASS 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
```
# 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\356\327\020\370\323\260\035\027\222\365\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\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\027\145\155\123\151\147\156\040\010\103\030
\122\157\157\164\040\031\101\104\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\12\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
CKA_CLASS CK_OBJECT_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\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
\157\156\147\040\120\157\163\164\040\103\101\040
\073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163
\054\026\151\223\007\376\261\105\355\273\242\121\152\260\332\265
\112\002\045\047\205\327\267\267\206\104\026\211\115\420\000\353\076
\227\251\123\244\251\176\125\114\306\366\105\020\034\352\351\073\237
\003\123\356\356\172\001\000\206\170\324\350\302\276\106\166\210
\023\077\042\273\1\100\220\352\122\000\264\002\176\041\032\036\234
\045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306
\313\041\116\260\367\231\110\030\050\327\212\255\060\035\320
\320\007\262\334\253\320\020\226\165\316\322\120\376\231\347\317
\057\237\347\166\321\141\052\373\041\273\061\320\252\237\107\244
\262\042\312\026\072\120\127\304\133\013\47\035\145\142\003\111
\001\153\103\331\330\370\236\055\317\216\114\016\105\364\240\132
\054\233\055\052\246\300\255\250\071\364\047\114\070\015\056\033
\111\073\122\364\350\210\203\053\124\050\324\362\065\122\264\062
\203\142\151\144\014\221\234\237\227\352\164\026\375\037\021\006
\232\233\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

# 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\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\221\212\375\077\363\130\271\131\040\360
END

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\100\600\03\125\004\006\023\002\110\113\061
\022\060\020\000\03\125\050\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\000\060\03\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

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---

# 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:00:00:00:55:65: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
\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
\000\024\010\026\137\121\142\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

---

# CKA_ID UTF8 "0"
|\263\306\136\237\232\202\231\113\165\152\376\152\351\227\040\344
|\344\166\172\306\320\044\252\220\315\040\220\272\107\144\373\177
|\007\263\123\170\265\012\242\362\163\103\316\101\053\201\152\056
|\205\026\224\123\324\153\137\162\042\253\121\055\102\325\000\234
|\231\127\336\273\224\073\127\375\232\365\206\313\126\073\133\210
|\001\134\174\050\133\003\371\111\203\174\262\177\174\343\355\216
|\241\117\140\123\161\252\35\120\064\022\017\267\227\173\154\207
|\112\104\347\365\155\354\200\067\360\130\031\156\112\150\166\360
|\037\222\344\352\265\026\223\323\141\121\020\001\132\255\247\333\113\373
|\137\334\037\243\134\214\241\176\233\267\236\323\126\157\146\136
|\007\226\040\035\013\164\373\146\116\213\021\025\351\201\111\176
|\157\260\324\120\177\042\327\137\145\020\155\246\364\205\036\330
|\256\006\113\112\247\322\061\146\302\370\316\345\010\246\244\002
|\226\104\150\127\304\325\063\317\031\057\024\304\224\034\173\244
|\331\160\237\016\261\200\342\321\236\021\144\251\210\021\072\166
|\202\345\142\302\200\330\244\203\355\223\357\174\057\220\260\062
|\114\226\025\150\110\102\232\241\103\000\44\350\034\343\263\245
|\041\116\223\000\202\037\317\040\137\312\073\070\307\267\155\072
|\363\346\104\270\160\01\153\210\216\160\353\234\027\122\250\101
|\224\056\207\266\347\246\022\305\165\337\133\000\123\156\173\244
|\334\163\260\371\066\224\337\167\303\351\015\300\071\361\171\273
|\106\216\253\103\131\047\267\040\273\043\351\126\100\041\354\061
|\075\145\252\103\362\075\353\160\104\341\127\115\046\020\073\230
|\237\363\310\216\033\070\126\041\152\121\223\323\221\312\106\332
|\211\267\075\123\203\054\010\037\213\171\123\335\377\254\037
END

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:00:00:05:55: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_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
# 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):
# 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 "Microsoft ECC Root Certificate Authority 2017"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_CERT_MD5_HASH 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_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 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
12312321144303317713641751237125312251361107115121110241140
356304303305
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202014636207525720733620213261112352014127061001
302354
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 "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

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 "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_CLASS CK_OBJECT_CLASS 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"

# 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:ff:54:0f: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):
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
\060\016\061\013\060\011\006\003\012\050\004\006\023\002\110\125\061
\021\060\017\006\003\012\050\004\007\014\010\102\165\144\141\160\145
\163\164\061\026\060\002\040\006\003\012\050\004\12\014\015\115\151\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\140\141\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\003\040\006\003\012\050\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\001\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
\060\010\061\013\060\011\006\003\012\050\004\006\023\002\122\117\061
\024\060\022\006\003\012\050\004\012\023\013\010\05\122\124\123\111
\107\116\040\123\101\06\03\060\003\012\050\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\010\061\013\060\011\006\003\012\050\004\006\023\002\122\117\061
\024\060\022\006\003\012\050\004\012\023\013\010\05\122\124\123\111
\107\116\040\123\101\06\03\060\003\012\050\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062
\114\372\031\227\153\326\135\023\323\302\134\124\274\062\163\240
\170\365\361\155\036\313\237\245\246\243\374\023\344\321\121\236\202
\171\144\140\051\023\076\243\375\171\162\152\253\342\323\345\270
\044\125\054\104\113\12\121\201\044\324\132\204\323\052\073\002\003
\001\100\000\012\243\102\060\100\060\017\006\060\031\125\035\023\001\001
\377\004\005\060\000\03\001\001\377\060\016\006\031\125\035\017\001
\001\377\004\004\003\002\000\01\010\006\030\035\030\035\016\004
\026\004\024\202\041\055\146\306\327\240\340\025\353\161\114\011
\167\034\140\236\124\156\003\060\015\006\011\052\206\110\120\367
\015\001\000\101\013\005\000\003\020\002\001\010\014\036\032\270\347
\362\140\202\235\003\063\201\130\006\212\361\042\111\351\350\352
\221\177\306\063\136\150\031\003\206\073\240\200\003\137\007\160\344
\010\036\145\205\021\134\366\201\042\267\365\002\043\126\256\271\036
\175\037\176\154\346\275\045\325\225\032\362\005\246\257\205\002
\157\256\370\036\206\137\045\031\111\123\301\307\212\251\333\123\713
\111\233\021\127\231\122\030\211\336\266\063\244\314\327\215\144
\175\242\315\074\050\054\264\232\222\352\115\365\304\103\304\045
\252\040\200\330\015\125\367\340\010\137\340\064\366\377\271\106\345
\103\024\003\146\170\341\021\261\332\340\137\106\000\170\000\041
\245\036\000\000\050\141\170\157\250\001\000\121\273\064\232\277\364
\070\022\373\230\263\162\060\111\161\136\420\130\517\105\350\13
\246\171\136\202\030\132\343\67\135\016\173\044\223\264\110\333\206
\137\336\120\206\170\034\71\100\346\061\250\220\166\160\141\257\234
\067\054\021\265\202\206\275\256\044\061\331\162\014\151\010\153\15
\131\237\366\161\257\234\013\321\102\250\037\100\064\042\203\123\045
\014\373\121\304\346\267\364\207\122\250\013\044\255\257\321\225\344
\226\327\164\144\153\116\116\002\074\252\205\363\040\243\103\071
\136\132\154\120\376\232\234\024\036\145\024\212\205\275\243\202
\105\132\111\126\152\322\234\261\143\062\345\141\340\123\042\016
\247\012\111\352\313\176\037\250\324\124\202\366\020\105\122\230
\006\030\036\245\315\057\177\252\234\351\076\010\162\354\043\000
\002\074\246\252\330\274\147\164\075\024\027\373\124\113\027\343
\323\171\075\155\153\113\111\050\160\056\164\120\277\014\333\1106
\072\202\063\112\47\077\351\240\354\177\353\245\167\130\151\161
\136\203\012\067\362\206\111\152\276\171\010\202\366\002\026\144
\076\345\332\114\176\014\064\311\371\137\266\263\050\121\247\247
\053\252\111\372\215\145\051\116\343\153\032\247\224\243\055\121
\155\170\141\043\133\337\336\010\157\136\234\144\253\323\225\204
\324\271\122\124\162\173\226\045\314\274\151\343\110\156\015\320
\307\235\047\232\252\370\002\232\335\036\337\143\237\065\251\026
\066\354\214\270\203\364\075\211\271\152\264\027\136\327\263\027
\101\120\135\047\163\140\205\127\111\042\007
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 "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_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"

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# 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):
Open Source Used In Crosswork Optimization Engine 4.0.0
\320\350\124\050\073\144\055\041\246\370\235\126\023\152\110\075
\117\307\076\051\133\155\130\203\124\075\120\175\043\005\324\344
\034\334\350\070\145\206\305\165\247\132\333\065\005\275\167\336
\273\051\067\100\005\007\030\022\024\212\223\71\12\44\355\103\305
\334\106\019\20\002\061\137\112\150\015\007\144\022\034\460\036\365
\052\241\250\023\123\012\014\021\124\077\070\055\020
\224\157\376\342\024\064\027\020\322\117\345\033\065\053\220\033\341
\260\015\250\240\252\106\047\020\066\247\025\191\10\166\102\021\012
\127\266\231\132\324\021\317\122\037\127\122\116\053\031\101
\150\045\324\067\027\040\025\037\001\116\233\022\255\361\024\046\040
\230\046\342\166\365\047\157\372\000\073\121\141\331\015\313\121
\223\052\375\026\062\022\047\043\122\043\103\376\121\157\266\304
\260\261\124\134\036\154\010\125\026\021\147\176\343\375\070\031\271
\070\116\262\203\114\031\235\027\337\130\236\172\142\262\046\217
\184\225\233\344\133\035\322\017\335\230\034\233\131\047\033\323
\061\124\024\136\370\070\335\170\040\117\351\031\130\260\072\147\033\321
\366\231\231\235\272\066\266\020\057\210\010\117\206\077\104\072
\200\034\067\034\146\246\172\325\227\130\123\204\142\107\044\036
\252\356\100\277\064\261\123\021\116\341\136\222\117\037\216\363
\236\227\336\136\246\171\152\211\161\117\104\027\110\036\354
\364\120\017\117\111\117\351\140\053\327\257\120\030\021\344\141
\126\047\006\151\345\162\010\213\236\266\001\211\240\057\072\162
\171\136\072\060\277\100\135\034\071\124\076\221\113\307\331\061\166
\102\231\367\074\143\335\046\214\163\014\175\032\035\325\200\174
\027\050\032\047\174\341\106\101\137\131\373\040\024\042\000
\236\112\247\157\000\026\010\105\267\042\121\150\103\054\022\242
\256\335\035\362\234\015\061\116\005\130\261\130\220\026\052\244\075
\020\020\276\127\142\143\023\125\234\202\175\055\002\351\020\036
\174\313\047\031\375\061\146\000\026\056\323\041\105\216\063\026
\154\230\355\020\250\007\326\314\223\031\033\321\151\034\144\032
\311\134\026\026\343\351\136\161\161\136\054\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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# 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

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_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\037\016
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\111\114\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\104\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\101\157\154\144\151\156
\147\163\054\050\111\156\143\056\061\060\057\106\003\125\104
\003\014\050\124\162\165\163\164\167\141\146\145\040\010\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\363\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

Open Source Used In Crosswork Optimization Engine 4.0.0 13449
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 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):
# 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 "Trustwave Global ECC P256 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\114\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\124\7\203\124
# 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

# 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
# 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

`CKA_CLASS CK_OBJECT_CLASS 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\100\241\1227\355\170\047\223\326 END`
`CKA_ISSUER MULTILINE_OCTAL`
`\352\317\140\304\073\271\025\051\100\241\1227\355\170\047\223\326 END`
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):

CERTIFICATE

OBJCLASS CK_OBJECT_CLASS CKO_CERTIFICATE

TNSENCODE 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

ID UTF8 "0"

ISSUER MULTILINE_OCTAL

END
Open Source Used In Crosswork Optimization Engine 4.0.0

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# 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
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL \310\176\101\366\045\073\365\011\263\027\350\106\075\277\320\233
CKA_ISSUER MULTILINE_OCTAL \060\151\061\013\060\011\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\140\135\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\062\060\060\060\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\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\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\137\326\120\115\015
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"

Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OU=FNMT-RCM,C=ES
Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OU=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

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL

END
CKA_SERIALNUMBER MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL

END
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

END
Open Source Used In Crosswork Optimization Engine 4.0.0  13460

# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES

END
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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\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\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\122\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\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\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\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\017
\127\334
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\160\060\020\003\130\240\003\002\001\002\002\020\166
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\344\060
\015\006\011\052\206\110\206\367\150\010\014\005\000\060\0122
\061\013\060\011\006\003\125\004\006\023\002\102\105\061\013\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\050\060\046\006\003\125\004
\003\020\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\060\036\027\015\062\060\060\063\061\070\060\060\060
\060\060\012\027\015\064\065\060\063\061\070\060\060\060
\060\012\060\132\020\027\015\064\065\060\063\061\070\060\060
\060\013\060\122\061\013\060\011\006\003\125\004\006\023\002\102
\105\061\013\060\027\006\003\125\004\012\023\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\122\064\065\060\020\020\020\020\015\006\011\052\206
\110\206\367\150\010\001\000\050\000\003\202\002\17\000\060\020
\002\021\020\020\020\020\010\000\033\171\134\155\006\371\155\273\340
\126\004\154\177\340\165\314\055\005\113\350\133\334\124\354\133
\167\225\162\277\177\142\235\205\251\212\044\120\137\123\345\333
\164\157\244\051\133\023\052\011\255\232\305\057\302\367\166\073
Open Source Used In Crosswork Optimization Engine 4.0.0

# 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):

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):

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
\123\151\147\156\040\156\166\055\163\141\061\105\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_AUTHCK_TRUST CKT_NSS_MUSTVERIFY_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
# 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 Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\122\060\101\130\060\011\100\060\003\125\004\001\120\230\202\010\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\105\006\004\126\060\004
\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_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\122\060\101\130\060\011\100\060\003\125\004\004\006\023\002\102\105\061
\031\160\027\006\003\125\004\012\120\230\202\010\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\105\006\004\126\060\004
\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
Open Source Used In Crosswork Optimization Engine 4.0.0

# Trust for “GlobalSign Secure Mail Root E45”
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
Open Source Used In Crosswork Optimization Engine 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 "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\321\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\344\372\146\103\224\052\152\033\044\137\031\320\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\010\060\010\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\122\064\066
END
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 "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_CLASS CK_OBJECT_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_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\105\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER 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\105\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
END

Open Source Used In Crosswork Optimization Engine 4.0.0  13471
\013\060\011\006\003\012\050\004\006\006\023\002\102\010\050\061\031\060\0027
\006\009\003\012\050\004\012\023\020\107\015\014\015\014\014\011\012\013\011\0147
\015\060\040\015\061\066\055\016\013\011\014\030\040\036\006\032\006\003\012\050\004\003
\023\020\107\015\014\015\014\015\014\013\011\014\015\016\004\012\012\015\017
\016\040\010\050\064\006\006\003\036\027\015\060\010\071\060\063\006\02\060\060
\060\060\060\060\060\060\013\020\060\010\060\010\060\010\060\010\060\006\013\02\010\006\003\012\050\004\006
\023\020\102\010\050\061\031\060\027\006\003\031\025\004\012\023\020\010\107
\015\014\015\014\011\014\015\016\004\015\016\060\055\016\013\011\061
\034\006\003\02\006\003\012\050\004\003\02\003\021\010\017\014\015
\12\013\015\014\017\050\040\010\122\015\07\006\003\02\006\003\014\022\017\013\023\010\010\016\006\006\001\060\016\006\003\012\050\004\006
\020\006\000\07\005\02\026\011\03\016\07\05\002\001\001\006\005\053\02\010\004\000
\042\003\014\02\000\004\02\040\016\02\011\07\027\03\050\023\06\022\016\07\060
\37\22\45\010\06\024\27\25\006\02\03\010\062\02\064\007\25\010\47\31\022\24\27\03\014
\32\22\012\02\02\03\07\33\32\02\11\26\02\07\14\16\0\03\01\01\01\21\6\033\03\035\2
\010\7\35\2\27\6\02\0\00\05\3\031\03\07\4\05\00\01\5\033\02\04\27\4\024\00\06\067
\35\5\160\01\00\00\01\65\3\02\22\03\01\03\07\30\06\12\22\23\4\03\01\50\00\4\03\006
\01\03\35\4\02\05\7\12\0\2\04\33\03\03\03\07\02\04\07\35\01\03\7\22\2\1\4\7\1\035
\011\1\2\0\01\07\4\04\0\2\03\1\02\06\0\10\00\06\0\06\0\01\6\00\06\0\03\01\25\03\017
\00\01\00\13\07\00\00\04\00\03\00\02\00\01\2\06\00\00\17\00\06\0\03\12\5\03\023
\00\1\00\13\07\00\00\04\00\03\00\03\00\01\01\01\37\07\00\06\0\35\00\0\03\12\5\03\035
\01\06\00\04\02\06\00\04\02\04\06\1\01\01\2\02\02\07\1\2\6\06\3\03\2\3\2\1\10\4\0\13\020
\26\2\4\2\3\4\06\3\07\2\6\1\02\1\1\07\3\03\2\5\06\0\01\2\00\06\0\01\05\2\06\0610
\31\6\07\0\04\0\03\0\03\0\15\00\0\06\0\14\5\00\2\06\1\00\0\3\37\0\12\4\220
\35\5\2\3\3\3\5\7\1\2\2\4\00\2\2\2\3\0\2\7\0\2\2\0\1\7\6\2\6\3\2\3\6\0\5\4\3\6\6\013
\2\2\1\2\4\3\7\1\1\0\2\0\2\4\2\6\6\1\0\4\2\7\4\2\7\3\1\5\0\1\2\0\2\0\1\4\0\0\3\3\67
\02\5\2\1\3\2\0\4\1\0\2\7\1\2\3\3\7\1\1\2\2\2\6\3\4\7\2\1\4\2\7\4\0\3\0\0\2\0\6\0\0\74
\3\7\1\0\2\1\3\2\4\2\1\4\1\6\3\0\0\3\0\1\1\4\3\0\2\0\2\5\1\1\4\2\5\2\2\3\5\0\3\0\1\3\061
\1\3\0\7\3\0\0\3\4\2\0\0\0\2\2\7\1\0\4\0\6\1\3\4\6\3\7\6\1\6\3\2\2\6\0\5\7\3\3\2\22\6323
\3\7\6\0\1\0\0\0\7\2\6\3\0\64\1\1\2\7\4\0\0\5\2\3\7\3\6\0\3\0\2\0\6\3\5\0\2\1\3\1\60
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 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 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\126\154\325\376\200\006\353\342\057\112\273\010\063\240\257
\333\271\335\204 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157 END
CKA_ISSUER 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\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\105\064\066 END
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 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 "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_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\107
\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060 END
Open Source Used In Crosswork Optimization Engine 4.0.0  13476

# 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

# Certificate "ANF Secure Server 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 "ANF Secure Server Root CA"
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificación,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 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_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_MDS_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\001\100\060\003\125\004\006\023\002\105\123\061\047\060\045\060\003\125\004\012\023\036\101
\116\106\040\101\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\101\116\106\040\010\103\101\040\122\141\151\172\061\042\060\006\003\125\004\003\023\031\101\116\106\040\123\145\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
0600640610130600110106000312500400602300201200114061
0410600037006003125004012023030101163116145143157
0401041411641411040123171163164145155163040123056
0100560104706004500603125004013023036103145162
164165155040103145162164151461511431411641151157
156040101165164150157162151164171061031060027006
0031250040030230201031451621641651550401051035055
06307006404040103101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
0600640610130600110106000312500400602300201200114061
0410600037006003125004012023030101163116145143157
0401041411641411040123171163164145155163040123056
0100560104706004500603125004013023036103145162
164165155040103145162164151461511431411641151157
156040101165164150157162151164171061031060027006
0031250040030230201031451621641651550401051035055
06307006404040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00212001702170477134201022122104012450001320055335272
163364
END
CKA_VALUE MULTILINE_OCTAL
06020200201450602020010353240003002001002002020170
217047134201022212204012450001320055335272163364060
01200601005220611103160750040003003060164010103060
0111006003125004006023002120114061041060037006003
125004012023030101163163145143157040104141164141
0401231711631641451551630401230561010560027006
045006003125004013023036103145162164165155040103
1451516415114615114314116415115715604010110165164
15015716215116417106103106002700603125004003023
020103145162164165155040105103055063070064040103
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;Certum EC-384 CA&quot;</td>
</tr>
</tbody>
</table>

# 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"
# 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

CKA_CLASS CK_OBJECT_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_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
"Certum Trusted Root CA"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
"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

# 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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\343\301\000\131\250\371\350\040\274\211\054\016\107\064\013
\352\127\302\123\066\374\247\324\257\061\131\376\002\345\163\372
\271\047\011\137\136\365\073\121\175\237\251\042\313\210\311\252
\321\017\075\063\250\013\144\153\047\317\353\044\345\165\372
\271\047\011\371\363\365\073\312\175\237\251\042\313\210\311\252
\321\107\075\063\167\250\013\144\153\047\317\353\044\345\163\372
\265\206\367\256\176\062\115\260\171\150\321\071\350\220\130\303
\203\274\017\054\343\044\307\332\267\256\076\6303
\077\277\057\334\064\244\373\053\041\315\147\217\113\364\343\352
\324\077\347\117\272\271\124\223\105\034\146\063\041\372\144\136
\157\340\166\224\062\313\165\365\156\345\365\266\217\307\270\244\314
\250\226\175\144\373\044\132\112\003\154\153\070\306\350\003\103
\232\367\127\271\263\051\115\223\070\364\003\362\273\373\202\153
\007\040\321\122\203\372\232\144\002\173\230\146\333\134\115\132\017
\320\204\225\240\074\024\103\006\312\312\333\270\101\066\332\152
\104\147\207\257\257\343\105\021\025\151\101\262\276\026\071\227
\044\157\022\105\321\114\135\011\250\301\125\332\372\322\246\137
\023\141\037\277\205\254\264\255\255\051\224\010\203\036\165\027
\323\161\073\233\120\043\131\240\355\074\221\124\235\166\000\035
\032\370\200\073\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
\010\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\156\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\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
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 CKC_X_509
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
\003\014\020\124\156\124\165\163\151\154\147\151\157\156\040\105\154\145\143
\164\162\157\156\151\161\165\154\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\011
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\006\014\010\013\066\001\100\061\003\125\004\006\023\002\124\116\061
\067\060\065\000\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\105\154\145\143
\164\162\157\156\151\161\165\154\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\011
END
CKA_issuer UTF8 "0"
# 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_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 "TunTrust Root CA"

## Note

The certificate data is provided in the format used by NSS. The following code snippet demonstrates how the certificate can be used in an application that supports NSS.

```c

#include <security.h>

// Load the certificate
void* cert = nss_mutex_load_cert("CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN");

// Get the certificate's public key
x509_pubkey_t* pubkey = nss_x509_get_pubkey(cert);

// Verify the certificate's signature
if (nss_x509_verify(cert, pubkey) == 0) {
    // Certificate is valid
    // Use the certificate
}
```

The above code snippet assumes that the certificate is loaded using the `nss_mutex_load_cert` function, which is part of the NSS library. The `nss_x509_get_pubkey` function is used to obtain the public key of the certificate, and `nss_x509_verify` is used to verify the certificate's signature.

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---
# Certificate "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 CKC_X_509
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"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\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\011\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\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\106\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\011\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\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\071\132\223\034\357\103\363\306\216\223\307\364\144\211
\070\176

END

CKA_VALUE MULTILINE_OCTAL
\060\202\200\05\244\060\202\200\03\214\240\003\002\001\002\002\020\071
\312\223\034\357\103\363\306\216\223\307\364\144\211\176\060
\150\006\110\052\061\10\063\367\015\001\001\013\005\000\060\154
\061\013\060\001\110\063\003\125\004\006\023\002\107\122\061\067\060
\065\006\003\125\004\012\140\056\110\145\154\154\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
# 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"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\055\005\202\372\210\316\024\014\006\171\336\177\024\020\351
\105\327\245\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\103\060\011\100\063\125\004\006\023\002\107\122\061
\067\060\065\024\003\125\004\102\140\056\110\145\154\151\156
\151\143\040\111\143\141\144\145\155\151\143\040\141\156\144\040
\145\156\143\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\010\101\061\044\060\042\006\003\125\004
\003\140\033\110\101\122\111\103\101\040\124\114\123\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\071\132\223\034\357\103\363\306\216\223\307\364\144\211
\070\176
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 TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL
# 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_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 "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):

# 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):

# 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):

# 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):

# 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):
# 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
# Fingerprint (SHA-256):
# Certificate "HARICA Client RSA Root CA 2021"
# Certificate "HARICA Client ECC Root CA 2021"
/\040/010/3/101/061/047/060/045/006/003/125/004/003/014/036/110/101/
12/21/111/031/100/410/103/154/151/11151/145/156/164/040/105/103/103/040/
06/20/61/060/062/061/071/061/061/060/063/063/064/132/027/015/064/
06/00/11/060/063/031/25/004/006/023/02/02/10/71/22/06/067/060/065/006/
00/31/12/000/4/001/04/00/14/56/11/014/15/145/154/154/145/156/151/143/040/101/
14/31/41/144/145/155/151/143/040/14/156/144/040/12/21/145/163/145/
16/30/40/103/110/061/047/060/045/006/003/125/004/003/014/036/110/110/
101/12/21/111/031/010/40/03/154/151/145/156/164/040/105/103/103/
04/01/12/157/157/164/040/103/101/040/062/060/062/061/060/060/060/060/
02/00/06/007/052/20/61/110/31/067/052/002/001/006/005/053/02/01/04/000/
04/20/03/114/000/003/006/003/030/255/225/226/224/320/134/017/20/2367/
05/21/00/130/37/220/02/32/113/110/75/066/246/243/004/152/30/1115/225/001/
21/10/14/022/12/145/141/32/24/20/33/156/023/072/21/00/225/014/034/046/
20/60/66/112/21/103/126/70/030/336/073/350/250/12/00/037/132/337/133/
27/71/11/00/20/233/334/060/341/035/132/307/052/21/00/010/073/376/
15/55/05/06/357/050/050/227/274/30/137/112/7/20/62/225/213/065/317/
23/61/32/32/115/02/25/243/102/060/100/060/017/006/003/125/035/023/
00/11/01/137/07/04/03/060/003/001/011/1377/060/035/060/031/125/035/
01/16/00/02/60/060/02/42/12/010/32/22/76/062/20/10/45/375/356/303/2227/
35/41/16/137/02/32/73/123/31/220/255/060/016/060/031/125/035/017/
00/11/01/1377/04/04/003/03/002/010/260/060/012/060/010/052/20/61/110/
31/60/75/09/03/003/03/147/000/060/144/002/02/60/011/4/66/114/051/010/
11/17/25/03/46/276/030/167/262/032/03/113/055/221/01/173/130/346/253/
22/41/31/04/003/26/060/027/337/337/20/163/104/12/10/54/375/223/035/
00/61/73/01/42/32/21/135/100/01/34/357/041/001/056/002/060/057/311/
07/03/12/05/63/132/34/03/35/362/242/111/24/232/257/301/130/136/117/
37/61/63/01/12/357/061/260/253/03/130/023/214/213/336/073/
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 "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_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: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):
# Fingerprint (SHA256):
# Fingerprint (SHA512):

### CKA_CLASS CK_OBJECT_CLASS 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
### CKA_ISSUER MULTILINE_OCTAL
# 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

CKA_CLASS CK_OBJECT_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"

# Certificate "vTrus ECC Root CA"

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 "vTrus ECC Root CA"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00201010331603513223772560154161

END

# Certificate "vTrus ECC Root CA"

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 "vTrus ECC Root CA"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00201010331603513223772560154161

END

# Certificate "vTrus ECC Root CA"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00201010331603513223772560154161
\073\346\155\034\326\332

END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\020\020\017\060\020\020\020\225\240\003\002\001\002\020\024\156
\152\274\131\152\123\267\020\071\147\242\232\153\244\073\346\155
\034\232\332\060\012\006\010\052\206\110\316\075\004\003\030\060
\107\061\013\060\011\006\003\125\004\006\023\002\013\116\061\034
\060\032\006\003\125\004\012\023\023\151\112\146\165\163\013\150
\151\156\141\040\013\157\056\054\114\164\144\056\061\032\060\030
\006\003\125\004\003\023\023\021\166\124\162\165\163\040\105\103\103
\040\122\157\157\164\040\010\03\101\060\036\027\015\061\070\060\067
\063\301\060\067\062\066\064\068\132\027\015\064\063\060\067\063
\061\106\067\062\066\064\064\132\060\107\061\013\060\011\006\003
\125\004\006\023\002\013\116\061\010\034\060\032\006\003\125\004\012
\023\023\151\112\146\165\163\013\150\151\156\141\040\013\157\056
\054\114\164\144\056\061\032\060\030\006\003\125\004\003\023\021
\166\124\162\165\163\040\010\03\103\103\040\122\157\157\164\040\103
\101\106\060\060\020\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\003\142\000\004\145\120\112\256\214\171\122
\112\252\034\010\03\024\242\315\376\131\126\101\167\375\046\224
\102\273\035\315\010\133\163\262\133\165\363\317\234\116\202\2364
\277\370\141\146\205\154\326\205\133\162\160\322\375\333\142\264
\337\123\212\137\259\261\104\130\142\120\013\307\372\177\133\020\347
\376\100\375\300\333\030\053\062\347\160\246\267\246\040\125\035
\173\200\135\112\217\147\114\361\020\243\102\060\100\060\035\006
\003\125\035\016\004\026\000\042\230\071\135\276\330\262\214\367
\262\253\342\155\044\257\173\174\241\333\037\137\060\017\006\003
\125\035\023\020\001\001\137\004\005\060\003\001\001\137\060\016\006
\003\125\035\017\001\000\137\004\004\004\003\020\001\006\060\012\006
\010\052\206\110\316\075\004\003\030\033\150\000\060\145\002\060
\127\235\335\126\361\130\343\335\127\011\112\120\153\333\151\133\017
\135\033\175\045\344\127\225\023\100\233\122\323\073\363\100\031
\274\046\307\055\006\236\265\173\066\237\365\045\324\143\153\000
\002\061\100\035\132\362\126\232\052\314\113\332\077\310\146
\053\333\130\234\040\205\372\253\221\121\160\160\021\070\140\144
\013\142\011\122\130\000\037\115\373\064\150\332\011\255\041\006
\030\224\136

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 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
\366\234\333\260\374\366\002\023\266\122\062\246\243\221\077\026
\160\332\303\341
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\113\301\365\122\214\233\103\341\076\217\125\124\027\215\205
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\13\036\011\125\000\003\023\023\002\103\116\061
\034\060\032\000\125\000\012\023\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\024\156\152\274\131\125\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"
#
# 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
# 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\023\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075\343\032\045\064\023\075

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\311\067\337\372\153\061\204\144\305\352\021\152\033\165\374 END

CKA_ISSUER MULTILINE_OCTAL
\060\103\061\101\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\115\116\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\104\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\124\375\065 \375\157\274\005\215\105 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
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):
Fingerprint (SHA1):

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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"

# 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_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
# Trust for "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Serial Number:41:2d:9d:a7:8c:01:2e:3c:02:12:96:01:00:07:06:01:00:00:00:00
# 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

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
# 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

CKA_CLASS CK_OBJECT_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"

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Open Source Used In Crosswork Optimization Engine 4.0.0  13515
# 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

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "HiPKI 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_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
060120060919B61315141541231511471560401051031030401221157157164
0401031010400550400422064061023060021006003125004
012023012107154157142141154123151147156061023060
021006003125004003023012107154157142141154123151
147156
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
060120060919B61315141541231511471560401051031030401221157157164
0401031010400550400422064061023060021006003125004
012023012107154157142141154123151147156061023060
021006003125004003023012107154157142141154123151
147156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020150020003451763650771223375245011041262246
END

CKA_VALUE MULTILINE_OCTAL
06020202001133406020200112032409003002001002002015002
0033451763650771223375245011041262246060012006010
0522060110361075040030020060120601044060042006003
125004013023033107154157142141154123151147156040
1051031030401221571571640401031010400550400422064
061023060021006003125004012023012107154157142141
15412315114715606102306021006003125004003023012
1071541571421411541231511471560600360271510561062
06106106106306006006006006006006006006006006002701510563070060
CKA_CLASSES
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
# 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
\153\240\260\234\253\277\242\212\155\144\251\305\240\254\243\357\225\377\225\233\046
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\051\370\155\341\210\227\242\145\177\252\304\315\017\177\374
END
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
\104\010\101\040\055\040\122\064\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\015\002\003\345\176\365\077\223\375\245\011\041\262\246
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 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 (SHA-1):

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 "GTS Root R1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\036\060\041\001\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\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\120\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\164\040\122\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

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# Trust for “GTS Root R1”
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US

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
# 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\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\014\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122\200\122\157\157\164\040\122\020\125\015\153\124\020\125\015\153\124\020
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\126\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_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 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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\017\066\013\060\011\010\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\000\031\125\004\012\023\031\107\157\157\147\154\145
\040\012\141\164\161\163\164\040\123\141\162\166\151\143\141\145\163\040
\114\114\030\061\240\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\017\066\013\060\011\010\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\000\031\125\004\012\023\031\107\157\157\147\154\145
\040\012\141\164\161\163\164\040\123\141\162\166\151\143\141\145\163\040
\114\114\030\061\240\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
\020\015\002\003\345\256\305\215\024\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END

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Open Source Used In Crosswork Optimization Engine 4.0.0

# 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_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH 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
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 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\013\060\011\100\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\03\110\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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\100\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\03\110\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
\002\020\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\111\060\020\200\1216\240\003\002\001\100\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\000\060\03\125\004\012
\023\03\110\175\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

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\063\060\036\027\015\061\066\060\066\060\066\062\062\062\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\013\060\076\061\013\060\060\011\060\066\033\125\004\006\023\002\125\123\061\042\060\040\060\060\063\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\140\114\111\036\061\024\060\022\060\060\033\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122\063\060\166\060\020\060\007\052\206\110\103\166\075\002\000\106\005\053\021\100\040\000\042\003\142\000\000\037\117\063\207\063\051\121\224\122\04\335\333\307\041\130\101\121\135\126\235\053\113\205\306\035\114\047\274\177\046\121\162\157\342\237\332\243\313\121\105\024\106\213\255\357\176\206\214\354\261\176\057\377\225\116\123\355\030\204\105\004\101\125\156\053\352\046\177\273\220\001\134\333\113\031\127\234\124\226\105\011\261\132\154\221\110\045\255\204\023\16\232\214\015\200\014\062\266\340\047\243\112\060\100\060\016\060\033\125\035\017\001\000\137\004\004\003\000\200\120\060\017\006\003\125\035\023\001\000\137\004\005\060\003\001\137\770\060\035\006\003\125\035\016\004\202\040\304\301\164\046\272\224\055\256\205\013\173\323\361\052\022\275\270\012\147\375\274\060\012\006\010\052\206\110\316\075\004\003\003\003\151\000\060\016\060\033\341\040\225\204\217\124\234\220\027\220\043\103\352\157\153\027\236\036\106\230\104\023\327\323\015\331\125\323\057\315\174\370\133\056\125\273\277\335\222\367\244\014\334\061\341\242\002\061\000\374\227\146\146\345\103\026\023\193\335\307\337\057\276\024\070\355\001\131\261\027\032\021\165\351\127\503\021\170\046\176\024\034\353\11\140\246\225\327\124\131\267\134\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
# 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_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

END

Open Source Used in Crosswork Optimization Engine 4.0.0 13529
# 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_ID UTF8 "0"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\077\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\164\040\122\064

END

CXA_CERT_MD5_HASH MULTILINE_OCTAL
\060\077\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

END

CXA_ISSUER MULTILINE_OCTAL
\060\077\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

END

CXA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146

END

CXA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CXA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CXA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CXA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# 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_ID UTF8 "0"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\077\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\164\040\122\064

END

CXA_ID UTF8 "0"

Open Source Used In Crosswork Optimization Engine 4.0.0 13630
# Trust for “GTS Root R4”
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
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# 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\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\001\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\145\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
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\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

Found in path(s):
* /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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1.1713 slf4j 1.7.36

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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:javas.mail.glassfish
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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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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1.1717 glibc 2.31-0ubuntu9.9

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1.1724 geronimo-validation-spec 1.1

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1.1725 boringssl 2.0.30.Final

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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jar/io/netty/internal/tcnative/SSL.java
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jar/io/netty/internal/tcnative/Buffer.java
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1.1726 failureaccess 1.0.1

1.1727 apache-karaf-client 4.2.9

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when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in /usr/share/common-licenses/GPL-2

-- vile: txtmode file-encoding=utf-8
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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

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1.1744 netty-transport 4.1.48.Final

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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/package-info.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/pool/ChannelHealthChecker.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/pool/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
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jar/io/netty/channel/pool/ChannelPool.java
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jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-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>

* [@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>

* For more information, please refer to the documentation of each subtype.

* <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 class DataServerHandler extends [@link SimpleChannelInboundHandler]<br>*/

*/
*/

/**
 * 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]) 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]<br> */
* public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
  *
  * if (message instanceof LoginMessage) {
  *     authenticate((LoginMessage) message);
  *     loggedIn = true;
  * } 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;Channel&gt; {
*     @Override
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*<h4>Using @link AttributeKey</h4>
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use @link AttributeKey which is provided by
* @link ChannelHandlerContext:
* </pre>
* public interface Message {
*     // your methods here
* }
* }
* @code @Sharable
* public class DataServerHandler extends @link SimpleChannelInboundHandler&lt;Message&gt; {
*     private final @link AttributeKey&lt;Boolean&gt; auth =
*         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);
*         &lt;b&gt;attr.set(true)&lt;/b&gt;;
*     } else (message instanceof GetDataMessage) {
*         if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
*     ...
* }
* &lt;/pre&gt;
* Now that the state of the handler is attached to the @link ChannelHandlerContext, you can add the same handler instance to different pipelines:
* &lt;/pre&gt;
* public class DataServerInitializer extends @link ChannelInitializer&lt;@link Channel&gt; {&lt;/p&gt;
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
*     ...
*     @code @Override
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast(&apos;handler&apos;, &lt;b&gt;SHARED&lt;/b&gt;);
*     }
* &lt;/pre&gt;
* &lt;/p&gt;
* The @code @Sharable annotation</p>
* 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](http://www.apache.org/licenses/LICENSE-2.0), and [@link ChannelPipeline](http://www.apache.org/licenses/LICENSE-2.0) 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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  jar/io.netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-
  jar/io.netty/channel/socket/oio/OioDatagramChannelConfig.java
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
1.1749 webencodings 0.5.1

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Found in path(s):
* /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(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    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.mklabels
~~~~~~~~~~~~~~~~~~~~~

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
        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-0.5.1-1.tar.gz/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
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
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
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-0.5.1/webencodings.egg-info/PKG-INFO
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
* PyPI releases: http://pypi.python.org/pypi/webencodings
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* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `"Content-Type: text/html; charset=latin1"`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, `"US-ASCII"` and `"iso-8859-1"` on the web are actually aliases for `"windows-1252"`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Found in path(s):

```bash
*/opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst
```

1.1750 netty-transport-native-epoll

4.1.52.Final

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 */
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*/

/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/package-info.java

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 */
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.

*/

/*
* Set the {@code TCP_QUICKACK} option on the socket. See <a
* href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
* for more details.
*/

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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
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jar/io/netty/channel/epoll/EpollEventArray.java
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */

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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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 */

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1.1759 pyzmq 18.1.1-3

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Amr Ali
2017/09/11

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1.1760 tre 0.8.0

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1.1761 aopalliance-repackaged 2.5.0-b42

1.1762 asyncio-nats-client 0.11.5

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projectlombok/lombok.patcher

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