



Open Source Used In Network Services Orchestrator (NSO) (version 5.1) 5.1

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1.5 jaxb-api 2.2.11

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz](http://sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz)

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and money, send me a bottle
of your favourite beer. If not, just send me a mail or
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1.7 jackson-databind 1.9.13

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1.8 jaxb-core 2.2.11

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1.9 javax-inject 2.4.0

1.10 jersey-guava 2.12

1.11 hikaricp 2.3.13

1.12 jackson-databind 1.9.13

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1.13 xmlrpc-common 3.1.3

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1.18 stax-api 1.0.1

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</module>
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  description='Java logging framework (runtime)'>
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  version='1.6.5'
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  description='ANT (compile time), needed for generation of test reports'>
  <jar name='serializer.jar' />
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  licenseType='apache-2.0'
  version='6.8'
  projectHome='http://www.testng.org'
  description='Used for unit testing'>
  <jar name='testng-6.8.jar' />
</module>
<module name='xalan'
  licenseType='apache-2.0'

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Used to generate HTML test reports from XML (testing time)'  
<jar name='xalan.jar' />  
</module>  
</thirdparty-licenses>
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1.23 jackson-module-jaxb-annotations 2.9.5

1.24 commons-beanutils 1.9.3

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1.27 google-protobuf 2.6.0

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1.28 mchange-commons-java 0.2.11

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1.29 hk2-api 2.3.0

1.30 jersey-media-jaxb 2.22

1.31 jersey-media-json-jackson 2.22

1.32 c3p0 0.9.5.2

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That's all there is to it!

1.33 hk2-utils 2.3.0

1.34 slf4j 1.7.5

1.34.1 Available under license :

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
    <title>SLF4J License</title>
    <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
  </head>
  <body>
    <script type="text/javascript">prefix="";</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="content">
```

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1.41 jaxb-core 2.3.0

1.42 jackson-databind 2.9.5

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```
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</body>
</html>
```

.apt
.args
.bundle
.class
.exe
.gif
.gitignore
.ico
.iml
.ipr
.iws
.jar
.jks
.jpg
.js
.json
.mm
.ods
.png
.project
.sql
.svg
.war
.zip
.dat
.lua
/docs/src/main/docbook/inc/*.src
jaxb.index
/MANIFEST.MF
/META-INF/services/
/README
/etc/jersey-1-migrated-tests
/etc/config/copyright-exclude
/etc/config/copyright.txt
/LICENSE.html
/LICENSE.txt
/third-party-license-readme.txt
nb-configuration.xml
/archetype-resources/
client.cert
keystore_client
keystore_server
server.cert
truststore_client
truststore_server
keystore-client
keystore-localhost-server
keystore-example_com-server

truststore-example_com-client
truststore-localhost-client
truststore-server
/examples/reload/resources
/core-server/etc
bootstrap
build.readme
/tests/e2e/entity/multipart-testcase.txt
/tests/e2e/server/mvc/MvcEncodingTest/FreemarkerResource.ftl
/tests/e2e/server/mvc/MvcEncodingTest/MustacheResource.mustache
/test/resources/org/glassfish/jersey/server/config/jaxrs-components
/tests/e2e/src/test/resources/org/glassfish/jersey/tests/e2e/entity/xxe.txt
/core-server/src/main/java/com/sun/research/ws/wadl
/bundles/repackaged/jersey-jsr166e/src/main/java/jersey/repackaged/jsr166e
/tests/performance/etc/data/MEASUREMENT_DATA
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/core-server/src/main/java/org/glassfish/jersey/server/internal/monitoring/TimeReservoir.java
/core-server/src/main/java/org/glassfish/jersey/server/internal/monitoring/UniformTimeReservoir.java
/core-server/src/main/java/org/glassfish/jersey/server/internal/monitoring/UniformTimeSnapshot.java
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1.44 thrift 0.10.0

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compiler/cpp/src/generate/t_cocoa_generator.cc
compiler/cpp/src/generate/t_cpp_generator.cc
compiler/cpp/src/generate/t_csharp_generator.cc
compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrift.ll
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
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lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs

lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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1.47 xml-apis 1.3.04

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1.52 xalan-java 2.7.2

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1.64 hamcrest 1.3

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- Andrey Pavlenko <andrey.a.pavlenko@gmail.com>; - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll <jrn@jrn.me.uk>; - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com>; - patch to constructor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com>; - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com>; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@signaturen.at>; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay <lemaymd@lemaymd.com>; - identified problem with EAX [BJA-93].
- Alex Dupre <ale@FreeBSD.org>; - fix to use of Signature rather than SignatureSpi in provider [BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BJA-102]
- Michael Schoene <michael@sigrid-und-michael.de>; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
- Ion Larrañaga <ilarra@s21sec.com>; fix to default partial packet generation in BCPGOutputStream.
- Bob Kerns <bob.kerns@positscience.com>; fix to hashCode for X509CertificateObject.
- Stefan Meyer <stefan.meyer@ewe.de>; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
- Robert J. Moore <Robert.J.Moore@allanbank.com>; speedups for OpenPGPCFB mode, clean room JCE patches.
- Rui Hodai <rui@po.ntts.co.jp>; speed ups for Camellia implementation, CamelliaLightEngine.
- Emir Bucalovic <emir.bucalovic@mail.com>; initial implementation of Grain-v1 and Grain-128.
- Torbjorn Svensson <tobbe79@gmail.com>; initial implementation of Grain-v1 and Grain-128.
- Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc>; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
- Henrik Andersson <k.henrik.andersson@gmail.com>; addition of UniqueIssuerID to certificate

generation.
Cagdas Cirit cagdas.cirit@gmail.com; subjectAlternativeName fix for x509CertStoreSelector.
Harakiri harakiri_23@yahoo.com; datahandler patch for attached parts in SMIME signatures.
Pedro Henriques pmahenriques@gmail.com; explicit bounds checking for DESKeyGenerator, code simplification for OAPEncoding.
Lothar Kimminger job.kimminger.de; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr rfarr.se@gmail.com; initial SRP-6a implementation.
Thomas Castiglione castiglione@au.ibm.com; patch to encoding for CRMF OptionalValidity.
Elisabetta Romani eromani@sogei.it; patch for recognising multiple counter signatures.
Robin Lundgren r737lundgren@gmail.com; CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec mormegil@centrum.cz; fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener antener_a@gmx.ch; fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat hsrawat@yahoo.com; fix for BERConstructedOctetString.
Rolf Lindemann lindemann@trustcenter.de; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov alexart.home@gmail.com; name look up patch for GOST-2001 parameters.
Mike Lyons mlyons@layer7tech.com; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole chris_h_cole@yahoo.com; identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek tom@atack.cz; added checking of Sender header to SignedMailValidator.
Michael emfau@t-online.de; correction of field error in getResponse method in CertRepMessage.
Trevor Perrin trevor@cryptography.com; addition of constant time equals to avoid possible timing attacks.
Markus Kilås markus@primekey.se; several enhancements to TimeStampResponseGenerator.
Dario Novakovic darionis@yahoo.com; fix for NPE when checking revocation reason on CRL without extensions.
Michael Smith msmith@cbnco.com; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
Andrea Zilio andrea.zilio@gmail.com; fix for PEM password encryption of private keys.
Alex Birkett alex@birkett.co.uk; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
Wayne Grant waynedgrant@gmail.com; additional OIDs for PCKS10 and certificate generation support.
Frank Cornelis info@frankcornelis.be; additional support classes for CAeS, enhancements to OCSP classes.
Jan Dittberner jan@dittberner.info; addHeader patch for SMIME generator.
Bob McGowan boab.mcgoo@btinternet.com; patch to support different object and mgf digests in PSS signing.
Ivo Matheis i.matheis@seeburger.de; fix to padding verification in ISO-9796-1.
Marco Sandrini nessche@gmail.com; patch to add IV to ISO9797Alg3Mac.
Alf Malf alfilmalf@hotmail.com; removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa alfonso.massa@insiel.it; contributions to CMS time stamp classes.

- Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikociski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@hjp-consulting.com> fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@google.com> additional functionality to PGPKKeyRing.
- Atanas Krachev <akrachev@gmail.com> added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@keynectis.com> initial cut of EAC classes.
- Tim Buktu <tbuktu@hotmail.com> Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@BEKK.no> Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@tngtech.com> Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
- Andy Neilson <Andy.Neilson@quest.com>a further patches to deal with multiple providers and PEMReader.
- Ted Shaw <xiao.xj@gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
- Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7VzL2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.
- Kenny Root <kenny@the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
- Maarten Bodewes <maarten.bodewes@gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
- Philip Clay <pilf_b@yahoo.com> Initial implementation of J-PAKE.
- Brian Carlstrom <bdc@carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
- Samuel Lidén Borell <samuel@primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
- Sergio Demian Lerner <sergiolerner@certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.
- Tim Whittington <Tim.Whittington@orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to

Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad <marcus.lundblad@primekey.se>; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin <zhozhin@xrm.ru>; patch for override of TSP SignerInfo attributes.

Sergey Tiunov <t5555d@gmail.com>; initial cut of DVCS classes.

Damian Kolasa <fatfredy@gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes <ashley.hughes@blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher <dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aarnio@methics.fi>; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi <bnajafi@akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.

Eric Mueller <eric.mueller@sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts@gmail.com>; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov <daniil.ivanov@gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso <daniele.grasso86@gmail.com>; contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc@gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu <arnis@ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB <axel-vdb@riseup.net>; initial implementation of Shacal2.

Roberto Tyley <>; further work on completing gradle build.

Waldemar Dick <wdick@devmue.de>; code improvement in x500 ASN.1 package.

Sid Steward <sid.steward@pdflabs.com>; code improvements to ASN1Boolean.

Alex Klyubin <klyubin@google.com>; AlgorithmParameters check for EC key agreement.

Jonathan Gillett <gsoc.student@gmail.com>; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter <andreas.reiter@iaik.tugraz.at>; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller <kieran.miller@gmail.com>; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli <ehli@arago.de>; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt <Daniel.Heldt@cryptovision.com>; Initial support for encodable state message digests

- Robert Bushman <bouncycastle@traxel.com> Clean up of DirectKeySignature example.
- Maurice Aarts<aarts@riscure.com> updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
- KB Sriram<mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze<marco@nightlabs.de> Reported verification bug in GenericSigner.
- Martin Schaefer<https://github.com/martinschaefer> contributed a code-cleanup patch.
- dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
- Tobias Wich<tobias.wich@ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrtens<hauke@hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman<dmz@galois.com> Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitza<j.kapitza@schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund<johan@primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch <axel-vdb@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
- Derek Atkins <derek@ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky <peto@halicky.sk> Correction to notification/error message handling in SignedMailValidator.
- IartiguePierre<https://github.com/IartiguePierre> Fix for counter signature SID in CMSSignedData.
- Thomas Belot<thomas.belot+BC@gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björjn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael <MSKnete@web.de> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
- Tobias Wagner <tobias.wagner@n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro <sgiro@google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuette<https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonard Dallot<https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen <j.w.janssen+bouncycastle@lxtrême.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

- Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer <kai.kramer@gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles <benoit.charles@opentrust.com> Fix for IES data length check on decryption.
- Niko <nfink95@gmail.com> fix to cast issue in getOutputSize() for ECIES.
- akwizgran<https://github.com/akwizgran> Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff <Matthias.Edelhoff@cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat <lukasz.deputat@gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.
- Andr e Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
- Slawomir Jaranowski<https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.
- William Glanton <wglanton77@gmail.com> Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele <jnaegele@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<https://github.com/andybons> NullPointerException patch for WNafUtil.
- The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.
- Gorka Irazoqui <girazoki@wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
- Joerg Senekowitsch <joerg.senekowitsch@veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
- Alexandr Krivoshta <wipe@ya.ru> N4 calculation fix to GOFB mode.
- Artem Storozhuk <storojs72@gmail.com> N4 calculation fix to GOFB mode.
- Na Yu <na.yu@samsung.com> Constructor patches to CMC PKIData.
- Evangelos Karatsiolis <ekaratsiolis@mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.
- VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.
- mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.
- Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
- Sebastian Wolfgang Roland <sebastianwolfgang.roland@stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.
- didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.
- Mike Safonov<https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- Artem Storozhuk <storojs72@gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser <andreas.glaser@064gi-de.com>; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne <https://github.com/cbpx>; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux <https://github.com/FauxFaux>; patch for JDK 1.9 update to DRBG.java.

4garbage <https://github.com/4garbage>; patch to allow GOST3410-94 private keys encoded as integers.

ekszz <https://github.com/ekszz>; corrections to SM2 signer to include default identity value.

jminer <https://github.com/jminer>; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d <https://github.com/str4d>; initial implementation of Blake2s

Scott Woodward <scott@064bit3consulting.com>; performance fixes for CTRSP800DRBG.

David Strawn <https://github.com/isomarcte>; fix for off by one error in SCRYPT bounds checking.

chris mccown <0xchrismccown@064gmail.com>; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis <https://github.com/ZZMarquis>; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer <https://github.com/Akretsch>; NPE fix for CertTemplate.getVersion()

Armin Lunkeit, Michael Tautenhahn <>; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser <https://github.com/Valodim>; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian <https://github.com/flooeey>; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd <https://github.com/ecki>; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung <https://github.com/shartung>; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub <https://github.com/vanitasvitae>; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar <https://github.com/nros>; update to OpenPGP package to handle a broader range of EC curves.

catbref <https://github.com/catbref>; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion <https://github.com/gerlion>; detection of concurrency issue with pre-1.60 EC math library.

fgrieu <fgrieu@064gmail.com>; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.

MTG <https://github.com/mtgag>; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier <up.gadermaier@064gmail.com>; initial version of Argon2 PBKDF algorithm.

Tony Washer <tony.washer@yahoo.co.uk>; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert <https://github.com/veebec>; initial version of RFC 4998 ASN.1 classes.

Tony Washer <https://github.com/tonywasher>; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.

Aurimas Liutikas <https://github.com/liutikas>; JavaDoc patches to ReasonsMask.

Gabriel Sroka <https://github.com/gabrielsroka>; corrected comments in RSA validation.

- sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
- Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
- Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
- Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palmér, TrueSec <Henrik.Palmer@truesec.se> Additional improvements to constant time comparisons.
- René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.
- Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.
- gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.
- im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche<https://github.com/dbusche> Argon2 optimisations.
- Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.
- Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.
- vkreml <https://github.com/svkreml> GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt >tobias@pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

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[PCRE]

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The basic library functions are written in C and are freestanding. Also
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
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 */
```

[zlib]

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005
```

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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://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

[dialyzer]

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[hipe]

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[edoc, syntax_tools]

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1.74 jackson-databind 2.9.9.3

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1.78 jersey-client 2.22

1.79 jetty-http 9.2.1.v20140609

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1.81 jaxb-runtime 2.2.11

1.82 zlib 1.2.8

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version 1.2.11, January 15th, 2017

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1.83 beanutils 1.9.3

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1.84 bcpkix-jdk15on 1.51

1.85 slf4j-log4j 1.7.7

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BSD License

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```
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```

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vlink="#800000">
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<p align="center"><b>Common Public License - v 1.0</b>
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</p><p><b></b><font size="3"></font>
```

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```

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</p><p><font size="2"></font>
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```
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```
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</p><p><font size="2">"Contributor" means any person or entity that distributes the Program.</font>
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</p><p><font size="2"></font><font size="2"></font>
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-->

<!DOCTYPE contributors

[

<!ELEMENT name (first?, middle?, last)>

<!ELEMENT contributors (introduction, name+)>

<!ELEMENT first (#PCDATA)>

<!ELEMENT introduction (#PCDATA)>

<!ELEMENT middle (#PCDATA)>

<!ELEMENT last (#PCDATA)>

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<contributors>

<introduction>

These are some of the many people who have helped Ant become so successful.

</introduction>

<name>

<first>Adam</first>

<last>Blinkinsop</last>

</name>

<name>

<first>Adam</first>

<last>Bryzak</last>

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1.89 hk2-utils 2.4.0

1.90 mysql-jdbc 8.0.12

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```
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 */
```

```
package com.mysql.cj.protocol.x;
```

```
import java.util.List;
```

```
import com.mysql.cj.protocol.Warning;
```

```
import com.mysql.cj.x.protobuf.MysqlxDatatypes.Scalar;
```

```
public class Notice implements Warning {
```

```

public static final int XProtocolNoticeFrameType_WARNING = 1;
public static final int XProtocolNoticeFrameType_SESS_VAR_CHANGED = 2;
public static final int XProtocolNoticeFrameType_SESS_STATE_CHANGED = 3;

public static final int SessionStateChanged_CURRENT_SCHEMA = 1;
public static final int SessionStateChanged_ACCOUNT_EXPIRED = 2;
public static final int SessionStateChanged_GENERATED_INSERT_ID = 3;
public static final int SessionStateChanged_ROWS_AFFECTED = 4;
public static final int SessionStateChanged_ROWS_FOUND = 5;
public static final int SessionStateChanged_ROWS_MATCHED = 6;
public static final int SessionStateChanged_TRX_COMMITTED = 7;
public static final int SessionStateChanged_TRX_ROLLEDBACK = 9;
public static final int SessionStateChanged_PRODUCED_MESSAGE = 10;
public static final int SessionStateChanged_CLIENT_ID_ASSIGNED = 11;
public static final int SessionStateChanged_GENERATED_DOCUMENT_IDS = 12;

private int noticeType = 0;

private int level;
private long code;
private String message;

private Integer paramType = null;
private String paramName = null;
private Scalar value = null;
private List<Scalar> valueList = null;

/**
 * Constructor for XProtocolNoticeFrameType_WARNING
 *
 * @param level
 *       level
 * @param code
 *       code
 * @param message
 *       message
 */
public Notice(int level, long code, String message) {
    this.noticeType = XProtocolNoticeFrameType_WARNING;
    this.level = level;
    this.code = code;
    this.message = message;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_STATE_CHANGED
 *
 * @param paramType

```

```

*      parameter type
* @param valueList
*      values
*/
public Notice(int paramType, List<Scalar> valueList) {
    this.noticeType = XProtocolNoticeFrameType_SESS_STATE_CHANGED;
    this.paramType = paramType;
    this.valueList = valueList;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_VAR_CHANGED
 *
 * @param paramName
 *      parameter name
 * @param value
 *      value
 */
public Notice(String paramName, Scalar value) {
    this.noticeType = XProtocolNoticeFrameType_SESS_VAR_CHANGED;
    this.paramName = paramName;
    this.value = value;
}

public int getType() {
    return this.noticeType;
}

@Override
public int getLevel() {
    return this.level;
}

@Override
public long getCode() {
    return this.code;
}

@Override
public String getMessage() {
    return this.message;
}

public Integer getParamType() {
    return this.paramType;
}

public String getParamName() {

```

```

    return this.paramName;
}

public Scalar getValue() {
    if (this.value == null && this.valueList != null && !this.valueList.isEmpty()) {
        return this.valueList.get(0);
    }
    return this.value;
}

public List<Scalar> getValueList() {
    return this.valueList;
}
}

```

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Version 2.1, February 1999

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Upstream-Contact: MySQL Release Engineering <mysql-build@oss.oracle.com>

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Licensing Information User Manual

MySQL Connector/J 8.0

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running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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1.92 slf4j-api 1.7.7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

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End

1.116 jetty 9.2.1.v20140609

1.116.1 Available under license :

```
<html xmlns:o="urn:schemas-microsoft-com:office:office" xmlns:w="urn:schemas-microsoft-com:office:word"
xmlns="http://www.w3.org/TR/REC-html40"><head>
```

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<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
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<meta name="Generator" content="Microsoft Word 9">
<meta name="Originator" content="Microsoft Word 9">
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href="http://www.eclipse.org/legal/Eclipse%20EPL%202003_11_10%20Final_files/filelist.xml">
<title>Eclipse Public License - Version 1.0 / Apache License - Version 2.0</title>
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<o:Revision>2</o:Revision>
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</xml><![endif]--><!--[if gte mso 9]><xml>
<w:WordDocument>
<w:TrackRevisions/>
</w:WordDocument>
</xml><![endif]-->
<style>
<!--
```



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/* Font Definitions */
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{font-family:Tahoma;
panose-1:2 11 6 4 3 5 4 4 2 4;
mso-font-charset:0;
mso-generic-font-family:swiss;
mso-font-pitch:variable;
mso-font-signature:553679495 -2147483648 8 0 66047 0;}
/* Style Definitions */
p.MsoNormal, li.MsoNormal, div.MsoNormal
{mso-style-parent:"";
margin:0in;
margin-bottom:.0001pt;
mso-pagination:widow-orphan;
font-size:12.0pt;
font-family:"Times New Roman";
mso-fareast-font-family:"Times New Roman";}
p
{margin-right:0in;
mso-margin-top-alt:auto;
mso-margin-bottom-alt:auto;
margin-left:0in;
mso-pagination:widow-orphan;
font-size:12.0pt;
font-family:"Times New Roman";
mso-fareast-font-family:"Times New Roman";}
p.BalloonText, li.BalloonText, div.BalloonText
{mso-style-name:"Balloon Text";
margin:0in;
margin-bottom:.0001pt;
mso-pagination:widow-orphan;
font-size:8.0pt;
font-family:Tahoma;
mso-fareast-font-family:"Times New Roman";}
@page Section1
{size:8.5in 11.0in;
margin:1.0in 1.25in 1.0in 1.25in;
mso-header-margin:.5in;
mso-footer-margin:.5in;
mso-paper-source:0;}
div.Section1
{page:Section1;}
-->
</style>
</head><body style="" lang="EN-US">

<div class="Section1">

```

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Version 2.0, January 2004

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</body></html>

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compiler/cpp/src/platform.h
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compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
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lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs

lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
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1.124 xmlrpc-server 3.1.3

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1.125 resourcelocator 1.0.1

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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1.130 jersey-common 2.22

1.131 jackson-core 2.9.5

1.131.1 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, as well as supported commercially by FasterXML.com.

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