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1.3 cas-client-core 3.2.1

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1.4 bson4jackson 2.7.0

1.5 slf4j-log4j 2.11.1

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1.6 jackson-annotations 2.9.8

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1.7 libxcb 1.11.1 1ubuntu1

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1.8 spring-instrument 4.3.19

1.9 opentracing-tracerresolver 0.1.4

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1.10 xpp3-min 1.1.3.4.O

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1.12 commons-net 3.0

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1.13 commons-digester 1.8.1

1.14 spring-security-config 3.2.4

1.15 classmate 1.0.0

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1.17 fast-infoset 1.2.15

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1.23 spring-aop 4.3.19

1.24 activation 1.2.0

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Release: July 2017

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1.26 maven-aether-provider 3.2.1

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1.27 datatype 1.3.03

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/
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1.34 libxt 1.1.5 0ubuntu1

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1.41 libsm 1.2.2-1

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1.43 maven-plugin-descriptor 2.0

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1.44 antlr 2.7.6

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1.45 ncurses 6.0+20160213 1ubuntu1

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1.46 swagger-codegen 2.1.6

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1.51 mongodb-driver-core 3.0.4

1.52 tools-ant 1.10.3

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1.54 spring-aspects 4.3.19

1.55 libpng 1.2.10

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.56 cal10n 0.8.1

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1.57 jdom 1.0

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1.58 javax-inject 1

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1.59 maven-settings 3.2.1

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1.60 rabbitmq-client 3.6.2

1.61 google-http-client-xml 1.20.0

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1.62 cglib 3.2.9

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1.65 jul-to-slf4j 1.7.7

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1.66 objenesis 2.5.1

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1.79 avalon-framework 4.1.2

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1.85 jackson-coreutils 1.6

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1.103 xpp 1.1.4c

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1.104 json-schema-core 1.2.1

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1.105 commons-lang 2.6

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1.113 sisu-guice 3.1.0

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1.116 spring-jdbc 4.3.19

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Justin Kolb <jkolb&#064pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser <ralfhauser&#064gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.
Michal Dvorak <M_Dvorak&#064kb.cz> - getNextUpdate patch for OCSP SingleResp.
Klaus Greve Fiorentini <Klaus&#064cpqd.com.br> - array fix in PGP PublickKeyEncSessionPacket.
Olivier Refalo <Olivier_Refalo&#064fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.
Mariusz Bandola <mariusz.bandola&#064cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.
Brien Oberstein <brien.oberstein&#064transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.
Ian Haywood <ian&#064haywood.bpa.nu> - addition of getSignatureType to PGPSignature.
Jonathan Edwards <s34gull&#064mac.com> - initial support for reading multiple rings from a PGP key file.
Andrew Thornton <andrew&#064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.
Gregor Leander <gl&#064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.
Antoon Bosselaers <Antoon.Bosselaers&#064esat.kuleuven.ac.be> - help with RipeMD320 implementation.
Peter Sylvester <Peter.Sylvester&#064edelweb.fr> - improvements to the ASN.1 BasicConstraints object.
Doug <ummmmm&#064myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.
Francois Staes <fstaes&#064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.
W.R. Dittmer <wdittmer&#064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.
Perez Paz Luis Alberto <laperez&#064banxico.org.mx> - patch to use of BitString in X.500 name.
James Wright <James_Wright&#064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.
Jim Ford <jim&#064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.
Michael Hausler <haeusler&#064ponton-consulting.de> - extra aliases for provider.
Sai Pullabhotla <psai&#064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
Joseph Miller <joseph&#064digiweb.net.nz> - addition of ZeroBytePadding.
Lars <xyz&#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.
Jeroen van Vianen <jeroen&#064vanvianen.nl> - the Signed and Encrypted mail example.
Jun Sun <JSun&#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
Petr Dukem <pdukem&#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.
Filipe Silva <filipe.silva&#064wedoconsulting.com> - patch to fix overead issue in BCPGInputStream.
Alpesh Parmar <alps&#064linuxmail.org> - patch for class cast problem in

PGPPublicKey.getSignatures().
Jay Gengelbach <jgengelbach&#064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.
Doug <doug&#064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.
Matthew Mundy <mmundy1&#064umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.
Tom Cargill <cargill&#064profcon.com> - spelling patch in provider.
Breitenstrom Christian <C.Breitenstrom&#064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
Zanotti Mirko <zanotti&#064cad.it> - patch to ordered equality test for X509Name.
Nicola Scendoni <nscendoni&#064babelps.it> - patch to add sorting to CertPath validation.
Ville Skyttä <ville.skytta&#064iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
Bruce Gordon <bruce.gordon&#064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
Miles Whiteley <Miles.Whiteley&#064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner&#064evintia.com> - initial TSP implementation.
Carlos Lozano <carlos&#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgadillo <javi&#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala&#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
Rolf Schillinger<rolf&#064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin&#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Franck Leroy <Franck.Leroy&#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk&#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshackov <tyrex&#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.
Soren Hilmer <soren.hilmer&#064tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
Steve Mitchell <mitchell&#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner&#064seeburger.de> - initial implementation of ISO 78164-4 padding.
Julien Pasquier <julienpasquier&#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso&#064libero.it> - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson&#064burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov <vladimir.n.molotkov&#064intel.com> - extensive provider exception handling compliance testing.
Florin Kollan <adlocflo&#064web.de> - fix to ElGamalKeyParameters equality testing.
Pavel Vassiliev <paulvas&#064gmail.com> - Initial GOST28147Mac implementation.
Tom Pesman <tom&#064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk&#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch&#064maxence.de> - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fix&#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee&#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5&#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung&#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz&#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee&#064Crossroads.com> - implementation assistance with streaming CMS classes.
Joel Rees <rees&#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
Francesc Sau <francesc.sau&#064partners.netfocus.es> - micro fix for tsp Accuracy class.
Larry Bugbee <bugbee&#064mac.com> - initial ECNR implementation.
Remi Blancher <Remi.Blancher&#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke <brianorourke&#064gmail.com> - patch for signature creation time override in OpenPGP.
Andreas Schwier <andreas.schwier&#064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
David Josse <david.josse&#064transacttools.net> - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko <kazu-k&#064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
Lawrence Tan <lwrnctan&#064gmail.com&gt - Large field OID sample test data. Missing key types in JDKKeyFactory.
Carlos Valiente <superdupont&#064gmail.com> - Addition of CRL writing to the PEMWriter class.
Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
Olaf Keller, <olaf.keller.bc&#064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jörg Eichhorn <eichhorn&#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme <widerstand&#064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
Carlos Lozano Ruiz <carlos&#064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.
John Alfred Prufrock <j.a.prufrock&#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
Stefan Neusatz Guilhen <sneusatz&#064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
Marzio Lo Giudice <marzio.logiudice&#064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
Georg Lippold <georg.lippold&#064gmx.de> - initial implementation of NaccacheStern cipher.
Chris Viles <chris_viles&#064yahoo.com> - fix to SignatureSubpacket critical bit setting.
Pasi Eronen <Pasi.Eronen&#064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
Lijun Liao <https://github.com/xipki> performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.
Maria Ivanova <maria.ivanova&#064gmail.com> - support for tags > 30 in ASN.1 parsing.
Armin Häberling <arminha&#064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
Marius Schilder <mschilder&#064google.com> - main set of test vectors for Bleichenbacher's forgery attack.
Xavier Le Vourch <xavier&#064brittanysoftware.com> - general code clean ups.
Erik Tews <e_tews&#064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
Thomas Dixon <reikomusha&#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
Frank Cornelis <info&#064frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
Rui Joaquim <rjoaquim&#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
David Stacey <DStacey&#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
Martijn Brinkers <list&#064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
Julius Davies <juliusdavies&#064gmail.com> - additional modes and algorithm support in PEMReader

Matthias <g&#064rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
Olga Käthler <olga.kaethler&#064hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
Germano Rizzo <germano.rizzo&#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
Núria Marí <numaa&#064hotmail.com> - patch for alternate data type recoginition in CMSSignedDataParser.
Janis Schuller <js&#064tzi.de> - addition of NotationData packets for OpenPGP.
Michael Samblanet <mike&#064samblanet.com> - patches towards improved Sun/default provider support in CMS.
Mike StJohns <mstjohns&#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
Ramon Keller <ramon.keller&#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
Mark Nelson <mark&#064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
Eugene Golushkov <eugene_gff&#064ukr.net> - mask fix to single byte read in TlsInputStream.
Julien Pasquier <julienpasquier&#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
Peter Knopp <pknopp&#064mtg.de> - fix for named curve recognition in ECGOST key generation.
Jakub Gwozdz <gwozdziu&#064rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
Bartosz Malkowski <bmalkow&#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
Tal Yacobi <tal.yacobi&#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
Massimiliano Ziccardi <massimiliano.ziccardi&#064gmail.comt> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
Andrey Pavlenko <andrey.a.pavlenko&#064gmail.com> - security manager patch for PKCS1Encoding property check.
J Ross Nicoll <jrn&#064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
Matthew Stevenson <mavricknz&#064yahoo.com> - patch to construtor for CRMF CertSequence.
Gabriele Contini <gcontini&#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
Roelof Naude <roelof.naude&#064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
Patrick Peck <peck&#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd&#064lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <ale&#064FreeBSD.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&#064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
Ion Larrañaga <ilarra&#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns&#064positscience.com> fix to hashCode for X509CertificateObject.

Stefan Meyer <stefan.meyer&#064ewe.de> backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.
Robert J. Moore <Robert.J.Moore&#064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui&#064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic&#064mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79&#064gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz&#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson&#064gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdascirit&#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23&#064yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques&#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.
Lothar Kimmeringer <job&#064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr <rfarr.se&#064gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione&#064au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani&#064sogei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren&#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil&#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a&#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat&#064yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann&#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home&#064gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons&#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole&#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom&#064atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau&#064t-online.de> correction of field error in getResponse method in CertRepMessage.
Trevor Perrin <trevor&#064cryptography.com> addition of constant time equals to avoid possible timing attacks.
Markus Kilås <markus&#064primekey.se> several enhancements to TimeStampResponseGenerator.
Dario Novakovic <darionis&#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
Michael Smith <msmith&#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.
Alex Birkett <alex&#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation

support.
Frank Cornelis <info&#064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.
Jan Dittberner <jan&#064dittberner.info> addHeader patch for SMIME generator.
Bob McGowan <boab.mcgoo&#064btinternet.com> patch to support different object and mgf digests in PSS signing.
Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.
Marco Sandrini <nessche&#064gmail.com> patch to add IV to ISO9797Alg3Mac.
Alf Malf <alfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso.massa&#064insiel.it> contributions to CMS time stamp classes.
Giacomo Boccardo <gboccardo&#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.
Arnis Tartu <arnis&#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
Janusz Sikociski <J.Sikocinski&#064gdzie.pl> addition of Features subpacket support to OpenPGP API.
Juri Hudolejev <jhudolejev&#064gmail.com> JavaDoc fix to CMSSignedDataParser.
Liane Velten <liane.velten&#064hjp-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden&#064google.com> additional functionality to PGPKeyRing.
Atanas Krachev <akrachev&#064gmail.com> added support for revocation signatures in OpenPGP.
Mickael Laiking <mickael.laiking&#064keynectis.com> initial cut of EAC classes.
Tim Buktu <tbuktu&#064hotmail.com> Initial implementation of NTRU signing and encryption.
Bernd <rbernd&#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
Steing Inge Morisbak <stein.inge.morisbak&#064BEKK.no> Test code for lower case Hex data in PEM headers.
Andreas Schmid <andreas.schmid&#064tngtech.com> Additional expiry time check in PGPPublicKeys.
Phil Steitz <phil.steitz&#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
Ignat Korchagin <ignat.korchagin&#064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
Petar Petrov <p.petrov&#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick <daniel.f.nwr&#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementions of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
Andy Neilson <Andy.Neilson&#064quest.com>a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj&#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CeriticationRequests.
Eleriseth <Eleriseth&#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.
Kenny Root <kenny&#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
Maarten Bodewes <maarten.bodewes&#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b&#064gyahoo.com> Initial implementation of J-PAKE.
Brian Carlstrom <bdc&#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher

classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel&#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner&#064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington <Tim.Whittington&#064orionhealth.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&#064primekey.se> patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
Andrey Zhozhin <zhozhin&#064xrm.ru> patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d&#064gmail.com> initial cut of DVCS classes.
Damian Kolasa <fatfredyy&#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes&#064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev&#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome&#064gmail.com> initial implementation of EC keys for OpenpPGP and RFC6637 support.
Matti Aarnio <matti.aarnio&#064methics.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&#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
Eric Müller <eric.mueller&#064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.
Mathias Herberts <Mathias.Herberts&#064gmail.com> fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov&#064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86&#064gmail.com> contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc&#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.
Roberto Tyley <> further work on completing gradle build.
Waldemar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.
Sid Steward <sid.steward&#064pdflabs.com> code improvements to ASN1Boolean.

Alex Klyubin <klyubin&#064google.com> AlgorithmParameters check for EC key agreement.
Jonathan Gillett <gsoc.student&#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller <kieran.miller&#064gmail.com> initial implementation for RFC 5649 key wrap with padding.
Oliver Ehli<ehli&#064arago.de> Additional support for BSI plain ECDSA in the provider.
Daniel Heldt<Daniel.Heldt&#064cryptovision.com> Initial support for encodable state message digests
Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.
Maurice Aarts<aarts&#064riscure.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&#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
Marco Schulze<marco&#064nightlabs.de> Reported verification bug in GenericSigner.
Martin Schaef<https://github.com/martinschaef> 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&#064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens<hauke&#064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman<dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitza&ltj.kapitza&#064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund<johan&#064primekey.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&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.
lartiguePierre<https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.
Thomas Belot<thomas.belot+BC&#064gmail.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.
Björn 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&#064web.de> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
Tobias Wagner <tobias.wagner&#064n-design.de> Fix SecureRandom handling in

BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro <sgiro&#064google.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&#064lxtreme.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&#064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
Benoit Charles <benoit.charles&#064opentrust.com> Fix for IES data length check on decryption.
Niko <nfink95&#064gmail.com> fix to cast issue in getOutputSize() for ECIES.
akwizgran<https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for varient keys.
Matthias Edelhoff <Matthias.Edelhoff&#064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat <lukasz.deputat&#064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
André 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&#064gmail.com> Fixed bug in Poly1305 [#BJA-620].
jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
Joseph Naegele <jnaegele&#064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
Andrew Bonventre<https://github.com/andybons> NullPointer 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&#064wpi.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&#064veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
Alexandr Krivoshta <wipe&#064ya.ru> N4 calculation fix to GOFB mode.
Artem Storozhuk <storojs72&#064gmail.com> N4 calculation fix to GOFB mode.
Na Yu <na.yu&#064samsung.com> Constructor patches to CMC PKIData.
Evangelos Karatsiolis <ekaratsiolis&#064mtg.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&#064stud.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&#064gmail.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/cbxp> 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/flooey> 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 OAEPEncoding 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/veebee> 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&#064truesec.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&#064pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

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1.127 jackson-dataformat-xml 2.9.8

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1.128 metrics-json 3.1.1

1.129 maven-project 2.0

1.130 bean-validation-api 1.1.0

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1.131 commons-net 1.4.1

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1.133 wsdl4j 1.5.1

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1.135 transaction-api 1.1.0

1.136 kxml 2.2.2

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1.137 spring-boot-autoconfigure 1.5.12

1.138 aether-util 0.9.0.M2

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1.141 metrics 3.1.1

1.142 minio 4.0.0

1.143 jetty-servlet 9.3.27.v20190418

1.144 osgi-core 4.1.0.build-200702212030

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1.145 hk2-locator 2.4.0

1.146 commons-db-cp 1.2.2

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1.148 spring-messaging 4.3.19

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1.149 metrics-jetty 3.1.0

1.150 jcl-over-slf4j 1.7.7

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1.152 system-api 1.1.0

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1.155 osgi-core 1.4.0

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1.156 reflectasm 1.11.3

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1.159 nimbus-jose-jwt 4.3.1

1.160 apache-felix-bundlerepository 1.6.2

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1.161 jetty-servlets 9.3.27.v20190418

1.162 swagger-compat-spec-parser 1.0.19

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1.163 guice 3.1.0

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1.168 apache-log4j 2.11.1

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1.173 spring-context-support 4.3.19

1.174 kxml 2.3.0

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1.175 opentracing-spring-web 0.3.2

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1.180 hibernate-entitymanager 3.6.7

1.181 libpng 1.2.8

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1.182 typesafe-config 1.0.2

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1.183 javatuples 1.2

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1.184 commons-compiler 2.6.1

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1.186 security-core 3.2.4

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1.187 maven-repository-metadata 3.2.1

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1.188 stax-api 1.0.1

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1.189 stax-ex 1.8

1.190 plexus-archiver 2.4.4

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1.191 jaxb-runtime 2.3.1

1.192 jersey-common 2.22.2

1.193 xorg-server 1.0.9-1

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.TH KBD_MODE 1 __vendorversion__
.SH NAME
kbd_mode \- recover the PC console keyboard
.SH SYNOPSIS
.B kbd_mode
[-a -u]
.SH DESCRIPTION
.I Kbd_mode
resets the PC console keyboard to a rational state.
.SH OPTIONS
The following options are supported:
.TP 8
.B \-a
Set the keyboard so that ASCII characters are read from the console.
.TP 8
.B \-u
Set the keyboard so that undecoded keyboard values are read from the
console.
.SH EXAMPLES
If the server crashes or otherwise fails to put the keyboard back in
ascii mode when it exits, it can leave your keyboard dead. If you are
able to login remotely, you can reset it typing:
.sp
 kbd_mode -a
.sp
.PP
Conversely, changing the keyboard to ascii mode while the server is
running will make the keyboard appear to be dead while the the mouse
continues to work. Again, if you are able to login remotely, you can
reset it typing:
.sp
 kbd_mode -u
.sp

.\" $TOG: kbd_mode.man /main/6 1997/07/19 10:37:14 kaleb $

1.194 javax-el-api 2.2.4

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1.204 slf4j 1.7.7

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1.205 stax 3.1.4

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1.206 swagger-codegen-maven-plugin 0.4.28

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1.207 opentracing-web-servlet-filter 0.1.0

1.208 commons-compress 1.9

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1.213 joda-time 2.7

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1.215 jaeger-core 0.23.0

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1.217 cassandra-driver-core 3.2.0

1.218 amqp-client 3.6.2

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Bruce Gordon <bruce.gordon&#064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
Miles Whiteley <Miles.Whiteley&#064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner&#064evintia.com> - initial TSP implementation.
Carlos Lozano <carlos&#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgadillo <javi&#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala&#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
Rolf Schillinger<rolf&#064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin&#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Franck Leroy <Franck.Leroy&#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk&#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshackov <tyrex&#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer <soren.hilmer&#064tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
Steve Mitchell <mitchell&#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner&#064seeburger.de> - initial implementation of ISO 78164-4 padding.
Julien Pasquier <julienpasquier&#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso&#064libero.it> - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson&#064burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
Vladimir Molotkov <vladimir.n.molotkov&#064intel.com> - extensive provider exception handling compliance testing.
Florin Kollan <adlocflo&#064web.de> - fix to ElGamalKeyParameters equality testing.
Pavel Vassiliev <paulvas&#064gmail.com> - Initial GOST28147Mac implementation.
Tom Pesman <tom&#064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk&#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch&#064maxence.de> - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fix&#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee&#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5&#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung&#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz&#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee&#064Crossroads.com> - implementation assistance with streaming CMS classes.
Joel Rees <rees&#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
Francesc Sau <francesc.sau&#064partners.netfocus.es> - micro fix for tsp Accuracy class.
Larry Bugbee <bugbee&#064mac.com> - initial ECNR implementation.
Remi Blancher <Remi.Blancher&#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke <brianorourke&#064gmail.com> - patch for signature creation time override in OpenPGP.
Andreas Schwier <andreas.schwier&#064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
David Josse <david.josse&#064transacttools.net> - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko <kazu-k&#064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
Lawrence Tan <lwrnctan&#064gmail.com&gt - Large field OID sample test data. Missing key types in JDKKeyFactory.
Carlos Valiente <superdupont&#064gmail.com> - Addition of CRL writing to the PEMWriter class.
Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
Olaf Keller, <olaf.keller.bc&#064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jörg Eichhorn <eichhorn&#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
Karsten Ohme <widerstand&#064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
Carlos Lozano Ruiz <carlos&#064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.
John Alfred Prufrock <j.a.prufrock&#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
Stefan Neusatz Guilhen <sneusatz&#064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
Marzio Lo Giudice <marzio.logiudice&#064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
Georg Lippold <georg.lippold&#064gmx.de> - initial implementation of NaccacheStern cipher.
Chris Viles <chris_viles&#064yahoo.com> - fix to SignatureSubpacket critical bit setting.
Pasi Eronen <Pasi.Eronen&#064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
Lijun Liao <https://github.com/xipki> performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.
Maria Ivanova <maria.ivanova&#064gmail.com> - support for tags > 30 in ASN.1 parsing.
Armin Häberling <arminha&#064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
Marius Schilder <mschilder&#064google.com> - main set of test vectors for Bleichenbacher's forgery attack.
Xavier Le Vourch <xavier&#064brittanysoftware.com> - general code clean ups.

Erik Tews <e_tews&#064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
Thomas Dixon <reikomusha&#064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
Frank Cornelis <info&#064frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
Rui Joaquim <rjoaquim&#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
David Stacey <DStacey&#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
Martijn Brinkers <list&#064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
Julius Davies <juliusdavies&#064gmail.com> - additional modes and algorithm support in PEMReader
Matthias <g&#064rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
Olga Käthler <olga.kaethler&#064hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
Germano Rizzo <germano.rizzo&#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
Núria Marí <numaa&#064hotmail.com> - patch for alternate data type recoginition in CMSSignedDataParser.
Janis Schuller <js&#064tzi.de> - addition of NotationData packets for OpenPGP.
Michael Samblanet <mike&#064samblanet.com> - patches towards improved Sun/default provider support in CMS.
Mike StJohns <mstjohns&#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
Ramon Keller <ramon.keller&#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
Mark Nelson <mark&#064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
Eugene Golushkov <eugene_gff&#064ukr.net> - mask fix to single byte read in TlsInputStream.
Julien Pasquier <julienpasquier&#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
Peter Knopp <pknopp&#064mtg.de> - fix for named curve recognition in ECGOST key generation.
Jakub Gwozdz <gwozdziu&#064rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
Bartosz Malkowski <bmalkow&#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
Tal Yacobi <tal.yacobi&#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
Massimiliano Ziccardi <massimiliano.ziccardi&#064gmail.comt> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
Andrey Pavlenko <andrey.a.pavlenko&#064gmail.com> - security manager patch for PKCS1Encoding property check.
J Ross Nicoll <jrn&#064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
Matthew Stevenson <mavricknz&#064yahoo.com> - patch to construtor for CRMF CertSequence.
Gabriele Contini <gcontini&#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
Roelof Naude <roelof.naude&#064epiuse.com> - patch for TLS client to send empty client certs in

response to HP_CERTIFICATE_REQUEST.
Patrick Peck <peck&#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd&#064lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <ale&#064FreeBSD.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&#064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
Ion Larrañaga <ilarra&#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns&#064positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer&#064ewe.de> backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.
Robert J. Moore <Robert.J.Moore&#064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui&#064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic&#064mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79&#064gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz&#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson&#064gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdascirit&#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23&#064yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques&#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.
Lothar Kimmeringer <job&#064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr <rfarr.se&#064gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione&#064au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani&#064sogei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren&#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil&#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a&#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat&#064yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann&#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home&#064gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons&#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole&#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom&#064atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau&#064t-online.de> correction of field error in getResponse method in

CertRepMessage.
Trevor Perrin <trevor&#064cryptography.com> addition of constant time equals to avoid possible timing attacks.
Markus Kilås <markus&#064primekey.se> several enhancements to TimeStampResponseGenerator.
Dario Novakovic <darionis&#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
Michael Smith <msmith&#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.
Alex Birkett <alex&#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation support.
Frank Cornelis <info&#064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.
Jan Dittberner <jan&#064dittberner.info> addHeader patch for SMIME generator.
Bob McGowan <boab.mcgoo&#064btinternet.com> patch to support different object and mgf digests in PSS signing.
Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.
Marco Sandrini <nessche&#064gmail.com> patch to add IV to ISO9797Alg3Mac.
Alf Malf <alfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso.massa&#064insiel.it> contributions to CMS time stamp classes.
Giacomo Boccardo <gboccardo&#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.
Arnis Tartu <arnis&#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
Janusz Sikociski <J.Sikocinski&#064gdzie.pl> addition of Features subpacket support to OpenPGP API.
Juri Hudolejev <jhudolejev&#064gmail.com> JavaDoc fix to CMSSignedDataParser.
Liane Velten <liane.velten&#064hjp-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden&#064google.com> additional functionality to PGPKeyRing.
Atanas Krachev <akrachev&#064gmail.com> added support for revocation signatures in OpenPGP.
Mickael Laiking <mickael.laiking&#064keynectis.com> initial cut of EAC classes.
Tim Buktu <tbuktu&#064hotmail.com> Initial implementation of NTRU signing and encryption.
Bernd <rbernd&#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
Steing Inge Morisbak <stein.inge.morisbak&#064BEKK.no> Test code for lower case Hex data in PEM headers.
Andreas Schmid <andreas.schmid&#064tngtech.com> Additional expiry time check in PGPPublicKeys.
Phil Steitz <phil.steitz&#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
Ignat Korchagin <ignat.korchagin&#064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
Petar Petrov <p.petrov&#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick <daniel.f.nwr&#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementions of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective

coordinates for EC.
Andy Neilson <Andy.Neilson&#064quest.com>a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj&#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CeritficationRequests.
Eleriseth <Eleriseth&#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.
Kenny Root <kenny&#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
Maarten Bodewes <maarten.bodewes&#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b&#064gyahoo.com> Initial implementation of J-PAKE.
Brian Carlstrom <bdc&#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel&#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner&#064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington <Tim.Whittington&#064orionhealth.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&#064primekey.se> patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
Andrey Zhozhin <zhozhin&#064xrm.ru> patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d&#064gmail.com> initial cut of DVCS classes.
Damian Kolasa <fatfredyy&#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes&#064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev&#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome&#064gmail.com> initial implementation of EC keys for OpenpPGP and RFC6637 support.
Matti Aarnio <matti.aarnio&#064methics.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&#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
Eric Müller <eric.mueller&#064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts&#064gmail.com> fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov&#064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86&#064gmail.com> contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc&#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.
Roberto Tyley <> further work on completing gradle build.
Waldemar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.
Sid Steward <sid.steward&#064pdflabs.com> code improvements to ASN1Boolean.
Alex Klyubin <klyubin&#064google.com> AlgorithmParameters check for EC key agreement.
Jonathan Gillett <gsoc.student&#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller <kieran.miller&#064gmail.com> initial implementation for RFC 5649 key wrap with padding.
Oliver Ehli<ehli&#064arago.de> Additional support for BSI plain ECDSA in the provider.
Daniel Heldt<Daniel.Heldt&#064cryptovision.com> Initial support for encodable state message digests
Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.
Maurice Aarts<aarts&#064riscure.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&#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
Marco Schulze<marco&#064nightlabs.de> Reported verification bug in GenericSigner.
Martin Schaef<https://github.com/martinschaef> 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&#064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens<hauke&#064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman<dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitza&ltj.kapitza&#064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund<johan&#064primekey.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&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.

lartiguePierre<https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.
Thomas Belot<thomas.belot+BC&#064gmail.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.
Björn 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&#064web.de> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
Tobias Wagner <tobias.wagner&#064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro <sgiro&#064google.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&#064lxtreme.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&#064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
Benoit Charles <benoit.charles&#064opentrust.com> Fix for IES data length check on decryption.
Niko <nfink95&#064gmail.com> fix to cast issue in getOutputSize() for ECIES.
akwizgran<https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for varient keys.
Matthias Edelhoff <Matthias.Edelhoff&#064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat <lukasz.deputat&#064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
André 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&#064gmail.com> Fixed bug in Poly1305 [#BJA-620].
jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
Joseph Naegele <jnaegele&#064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
Andrew Bonventre<https://github.com/andybons> NullPointer 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&#064wpi.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&#064veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
Alexandr Krivoshta <wipe&#064ya.ru> N4 calculation fix to GOFB mode.
Artem Storozhuk <storojs72&#064gmail.com> N4 calculation fix to GOFB mode.
Na Yu <na.yu&#064samsung.com> Constructor patches to CMC PKIData.
Evangelos Karatsiolis <ekaratsiolis&#064mtg.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&#064stud.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&#064gmail.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/cbxp> 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/flooey> 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 OAEPEncoding 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/veebee> 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&#064truesec.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&#064pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

</body>
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1.220 commons-cli 1.1

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1.221 swagger 1.5.8

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1.222 zlib 1.2.3

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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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1.223 ant-launcher 1.10.3

1.224 postgresql-jdbc 42.2.5.jre7

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1.226 log4j-slf4j-impl 2.11.1

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1.228 spring-security-core 3.2.4

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1.230 bndlib 1.15.0

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1.232 commons-db-cp 2.0.1

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1.233 jopt-simple 4.6

1.234 jaeger-thrift 0.23.0

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1.235 aether-spi 0.9.0.M2

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1.236 hibernate-commons-annotations 3.2.0

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*/
package org.hibernate.annotations.common.reflection.java;

import java.lang.reflect.Type;
import java.util.Collection;

import org.hibernate.annotations.common.reflection.XClass;
import org.hibernate.annotations.common.reflection.java.generics.TypeEnvironment;

/**
* @author Emmanuel Bernard
* @author Paolo Perrotta
*/
class JavaXSimpleType extends JavaXType {

 public JavaXSimpleType(Type type, TypeEnvironment context, JavaReflectionManager factory) {
  super( type, context, factory );
 }

 public boolean isArray() {
  return false;
 }

 public boolean isCollection() {
  return false;
 }

 public XClass getElementClass() {
  return toXClass( approximate() );
 }

 public XClass getClassOrElementClass() {
  return getElementClass();
 }

 public Class<? extends Collection> getCollectionClass() {
```

```
 return null;
 }

 public XClass getType() {
  return toXClass( approximate() );
 }

 public XClass getMapKey() {
  return null;
 }
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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*/
package org.hibernate.annotations.common.reflection.java.generics;

import java.lang.reflect.GenericArrayType;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;
import java.lang.reflect.WildcardType;
import java.util.HashMap;

/**
* Binds formal type arguments (typically T, E, etc.) to actual types.
*
* @author Davide Marchignoli
* @author Paolo Perrotta
```

```
*/
class SimpleTypeEnvironment extends HashMap<Type, Type> implements TypeEnvironment {

 private static final long serialVersionUID = 1L;

  private final TypeSwitch<Type> substitute = new TypeSwitch<Type>() {
 @Override
 public Type caseClass(Class classType) {
  return classType;
 }

 @Override
 public Type caseGenericArrayType(GenericArrayType genericArrayType) {
  Type originalComponentType = genericArrayType.getGenericComponentType();
  Type boundComponentType = bind( originalComponentType );
  // try to keep the original type if possible
  if ( originalComponentType == boundComponentType ) {
   return genericArrayType;
  }
  return TypeFactory.createArrayType( boundComponentType );
 }

 @Override
 public Type caseParameterizedType(ParameterizedType parameterizedType) {
  Type[] originalArguments = parameterizedType.getActualTypeArguments();
  Type[] boundArguments = substitute( originalArguments );
  // try to keep the original type if possible
  if ( areSame( originalArguments, boundArguments ) ) {
   return parameterizedType;
  }
  return TypeFactory.createParameterizedType(
    parameterizedType.getRawType(), boundArguments, parameterizedType.getOwnerType()
  );
 }

 private boolean areSame(Object[] array1, Object[] array2) {
  if ( array1.length != array2.length ) {
   return false;
  }
  for ( int i = 0; i < array1.length ; i++ ) {
   if ( array1[i] != array2[i] ) {
    return false;
   }
  }
  return true;
 }

 @Override
```

```
 public Type caseTypeVariable(TypeVariable typeVariable) {
        if ( !containsKey( typeVariable )) {
         return typeVariable;
        }
        return get( typeVariable );
 }

 @Override
 public Type caseWildcardType(WildcardType wildcardType) {
  return wildcardType;
 }
};

public SimpleTypeEnvironment(Type[] formalTypeArgs, Type[] actualTypeArgs) {
     for (int i = 0; i < formalTypeArgs.length; i++) {
        put( formalTypeArgs[i], actualTypeArgs[i] );
     }
}

public Type bind(Type type) {
 return substitute.doSwitch( type );
}

private Type[] substitute(Type[] types) {
 Type[] substTypes = new Type[types.length];
 for ( int i = 0; i < substTypes.length ; i++ ) {
  substTypes[i] = bind( types[i] );
 }
 return substTypes;
}
}
```

1.237 spring-amqp 1.2.0

1.238 json-patch 1.6

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1.239 osgi-service-obr 1.0.1

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1.240 janino 2.6.1

1.241 jackson-jaxrs-base 2.5.4

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1.244 jaxen 1.1.6

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1.246 spring-framework 4.3.19

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1.247 jersey-entity-filtering 2.22.2

1.248 xstream 1.4.10

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1.249 spring-binding 2.5.1

1.250 quartz 1.8.6

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1.251 jnr-constants 0.9.0

1.252 libx11 1.6.5

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1.253 opentracing-api 0.31.0

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1.254 oro 2.0.8

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compiler/cpp/src/parse/t_field.h
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compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
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lib/csharp/src/TApplicationException.cs
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1.264 classworlds 2.5.1

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1.265 javax-inject 2.4.0

1.266 plexus-interpolation 1.15

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1.267 jaxb-api 2.3.0

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1.268 java-jwt 3.8.3

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1.276 joda-time 1.6

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1.293 maven-model-builder 3.2.1

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1.295 commons-math 1.1

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1.296 kryo 4.0.0

1.297 spring-security-acl 3.2.4

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*/
package org.springframework.security.acls.model;

```
import java.io.Serializable;

/**
* Represents a permission granted to a <tt>Sid</tt> for a given domain object.
*
* @author Ben Alex
*/
public interface Permission extends Serializable {
  //~ Static fields/initializers
=================================================================================
===

  char RESERVED_ON = '~';
  char RESERVED_OFF = '.';
  String THIRTY_TWO_RESERVED_OFF = ".....";

  //~ Methods
=================================================================================
======================

  /**
   * Returns the bits that represents the permission.
   *
   * @return the bits that represent the permission
   */
  int getMask();

  /**
   * Returns a 32-character long bit pattern <code>String</code> representing this permission.
   * <p>
   * Implementations are free to format the pattern as they see fit, although under no circumstances may
   * {@link #RESERVED_OFF} or {@link #RESERVED_ON} be used within the pattern. An exemption is in the
case of
   * {@link #RESERVED_OFF} which is used to denote a bit that is off (clear).
   * Implementations may also elect to use {@link #RESERVED_ON} internally for computation purposes,
   * although this method may not return any <code>String</code> containing {@link #RESERVED_ON}.
   * <p>
   * The returned String must be 32 characters in length.
   * <p>
   * This method is only used for user interface and logging purposes. It is not used in any permission
   * calculations. Therefore, duplication of characters within the output is permitted.
   *
   * @return a 32-character bit pattern
   */
  String getPattern();
}
```

1.298 xml-apis 1.3.04

1.298.1 Available under license :

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1.299 hibernate 3.6.9

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```
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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
// $Id: Permission.java 7736 2005-08-03 20:03:34Z steveebersole $
package org.hibernate.test.version.db;

import java.util.Date;

/**
* Implementation of Permission.
*
* @author Steve Ebersole
*/
public class Permission {
 private Long id;
 private Date timestamp;
 private String name;
 private String context;
 private String access;

 public Permission() {
 }

 public Permission(String name, String context, String access) {
  this.name = name;
  this.context = context;
  this.access = access;
 }

 public Long getId() {
  return id;
 }

 public void setId(Long id) {
  this.id = id;
 }

 public Date getTimestamp() {
  return timestamp;
 }

 public void setTimestamp(Date timestamp) {
  this.timestamp = timestamp;
```

```
}

public String getName() {
 return name;
}

public void setName(String name) {
 this.name = name;
}

public String getContext() {
 return context;
}

public void setContext(String context) {
 this.context = context;
}

public String getAccess() {
 return access;
}

public void setAccess(String access) {
 this.access = access;
}
}
```

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```
//$Id: Permission.java 10977 2006-12-12 23:28:04Z steve.ebersole@jboss.com $
package org.hibernate.test.collection.original;

/**
* @author Gavin King
*/
public class Permission {
 private String type;
 Permission() {}
 public String getType() {
  return type;
```

```
 }
 public void setType(String type) {
  this.type = type;
 }
 public Permission(String type) {
  this.type = type;
 }
 public boolean equals(Object that) {
  if ( !(that instanceof Permission) ) return false;
  Permission p = (Permission) that;
  return this.type.equals(p.type);
 }
 public int hashCode() {
  return type.hashCode();
 }
}
package org.hibernate.ejb.test.util;

import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.ManyToOne;
import javax.persistence.MappedSuperclass;


/**
* @author Emmanuel Bernard
*/
@MappedSuperclass
public abstract class CopyrightableContent {
 private Author author;

 public CopyrightableContent() {
 }

 public CopyrightableContent(Author author) {
  this.author = author;
 }

 @ManyToOne(fetch = FetchType.LAZY)
 private Author getAuthor() {
  return author;
 }

 private void setAuthor(Author author) {
  this.author = author;
 }
}
```

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```
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import java.util.Date;
import javax.persistence.Entity;
import javax.persistence.Id;

/**
* @author Emmanuel Bernard
*/
@Entity
public class Permission {
```

```
 private String permission;
 private Date expirationDate;

 @Id
 public String getPermission() {
  return permission;
 }

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

 public Date getExpirationDate() {
  return expirationDate;
 }

 public void setExpirationDate(Date expirationDate) {
  this.expirationDate = expirationDate;
 }
}
```

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  limitations under the License.
// $Id: Permission.java 7805 2005-08-10 16:25:11Z steveebersole $
package org.hibernate.test.version.sybase;

import java.util.Date;

/**
* Implementation of Permission.
*
* @author Steve Ebersole
*/
public class Permission {
 private Long id;
 private Date timestamp;
 private String name;
 private String context;
 private String access;

 public Permission() {
 }

 public Permission(String name, String context, String access) {
  this.name = name;
  this.context = context;
  this.access = access;
 }

 public Long getId() {
  return id;
 }

 public void setId(Long id) {
  this.id = id;
 }

 public Date getTimestamp() {
  return timestamp;
 }

 public void setTimestamp(Date timestamp) {
  this.timestamp = timestamp;
 }
```

```
public String getName() {
 return name;
}

public void setName(String name) {
 this.name = name;
}

public String getContext() {
 return context;
}

public void setContext(String context) {
 this.context = context;
}

public String getAccess() {
 return access;
}

public void setAccess(String access) {
 this.access = access;
 }
}
```

1.300 spring-beans 4.3.19

1.301 jsr311-api 1.1.1

1.301.1 Available under license :

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1.302 icu 36

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ICU License - ICU 1.8.1 and later

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
```

```
	$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
	$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup
```

1.303 timing-framework 1.0

1.303.1 Available under license :

```
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*/
```

1.304 wagon-provider-api 1.0-beta-2

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1.305 commons-pool 1.5.3

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1.307 plexus-sec-dispatcher 1.3

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1.311 cglib 2.2.2

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1.312 scala 2.10.0

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1.314 typetools 0.3.1

1.315 ant 1.10.3

1.316 json-java 1.0.0

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1.317 maven-artifact-manager 2.0.7

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1.318 xml-extensions 1.20.0

1.319 mongo-java-driver 3.0.4

1.320 slf4j-ext 1.7.12

1.321 commons-collections 4.4

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1.322 spring-oxm 4.3.19

1.323 btf 1.2

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1.324 swagger-codegen-template-spring-interfaces 0.4.28

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1.325 libjpeg 6b

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README for release 6b of 27-Mar-1998
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Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG

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DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

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

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

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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.

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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 best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. 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). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
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Numerous Internet sites maintain copies of the UUNET files. However, only
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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/
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RELATED SOFTWARE
==========

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

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

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

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

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

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

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

1.326 mailapi 1.4.3

1.326.1 Available under license :

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signature of Ty Coon, 1 April 1989
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1.327 aspectj-tools 1.8.13

1.328 ant 1.6.5

1.329 make 3.81

1.329.1 Available under license :

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Appendix: How to Apply These Terms to Your New Programs

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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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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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changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

However, linking a "work that uses the Library" with the Library

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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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1.333 jackson-jaxrs-xml-provider 2.9.10

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1.334 json-simple 1.1.1

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1.337 thumbnailator 0.4.8

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1.338 datatype 1.4.01

1.339 commons-validator 1.5.1

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1.340 annotations 2.0.1

1.341 jtype 0.1.1

1.342 metrics-core 3.0.2

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1.343 spring-tx 4.3.19

1.344 jzlib 1.0.7

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1.345 commons-lang 3.8.1

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1.346 rabbitmq 3.1.3

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1.373 xerces-j 2.9.0

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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1.378 txw2 2.3.1

1.379 cglib-nodep 2.2.2

1.380 gmp 3.1.1

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1.381 maven-settings-builder 3.2.1

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1.382 zlib 1.0.8

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1.383 aspect-j 1.9.2

1.384 maven-archiver 2.5

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1.385 rhino 1.7R4

1.386 shiro 1.2.2

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*/
package org.apache.shiro.authz.permission;

import java.io.Serializable;

import org.apache.shiro.authz.Permission;



/**
* An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
* {@link #implies implies} method always returns <tt>true</tt>.
*
* <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
* those respective entities will have the ability to do anything.  As such, an instance of this class
* is typically only assigned only to "root" or "administrator" users or roles.
*
* @since 0.1
*/
public class AllPermission implements Permission, Serializable {

  /**
   * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
   *
   * @param p the Permission to check for implies logic.
   * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
   */
  public boolean implies(Permission p) {
     return true;
  }
}
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*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by {@link org.apache.shiro.authz.Authorizer Authorizer} and
* {@link org.apache.shiro.realm.Realm Realm} implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* {@link org.apache.shiro.authz.Permission Permission} instances.
*
* @since 0.9
*/
public interface PermissionResolverAware {

  /**
   * Sets the specified <tt>PermissionResolver</tt> on this instance.
   *
   * @param pr the <tt>PermissionResolver</tt> being set.
   */
  public void setPermissionResolver(PermissionResolver pr);
}
/*
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```

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*/
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertTrue;
import org.junit.Test;


/**
*/
public class AllPermissionTest {

  @Test
  public void testNullArgument() {
     assertTrue(new AllPermission().implies(null));
  }

  @Test
  public void testNonNullArgument() {
     assertTrue(new AllPermission().implies(new AllPermission()));
  }
}
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
* A {@code PermisisonResolver} resolves a String value and converts it into a
* {@link org.apache.shiro.authz.Permission Permission} instance.
```

```
* <p/>
* The default {@link WildcardPermissionResolver} should be
* suitable for most purposes, which constructs {@link WildcardPermission} objects.
* However, any resolver may be configured if an application wishes to use different
* {@link org.apache.shiro.authz.Permission} implementations.
* <p/>
* A {@code PermissionResolver} is used by many Shiro components such as annotations, property file
* configuration, URL configuration, etc.  It is useful whenever a String representation of a permission is specified
* and that String needs to be converted to a Permission instance before executing a security check.
* <p/>
* Shiro chooses to support {@link WildcardPermission Wildcardpermission}s by default in almost all components
and
* we do that in the form of the {@link WildcardPermissionResolver WildcardPermissionResolver}.  One of the
nice
* things about {@code WildcardPermission}s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
*
* @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
ModularRealmAuthorizer.setPermissionResolver
* @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
AuthorizingRealm.setPermissionResolver
* @see PermissionResolverAware PermissionResolverAware
* @since 0.9
*/
public interface PermissionResolver {

  /**
   * Resolves a Permission based on the given String representation.
   *
   * @param permissionString the String representation of a permission.
   * @return A Permission object that can be used internally to determine a subject's permissions.
   * @throws InvalidPermissionStringException
   *         if the permission string is not valid for this resolver.
   */
  Permission resolvePermission(String permissionString);

}
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*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured
<tt>RolePermissionResolver</tt> that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by {@link org.apache.shiro.authz.Authorizer Authorizer} and
* {@link org.apache.shiro.realm.Realm Realm} implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* {@link org.apache.shiro.authz.Permission Permission} instances.
*
* @since 1.0
*/
public interface RolePermissionResolverAware {

  /**
   * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
   *
   * @param rpr the <tt>RolePermissionResolver</tt> being set.
   */
  public void setRolePermissionResolver(RolePermissionResolver rpr);
}
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import java.util.Collection;

/**
* A RolePermissionResolver resolves a String value and converts it into a Collection of
* {@link org.apache.shiro.authz.Permission} instances.
* <p/>
* In some cases a {@link org.apache.shiro.realm.Realm} my only be able to return a list of roles.  This
* component allows an application to resolve the roles into permissions.
*
*/
public interface RolePermissionResolver {

  /**
   * Resolves a Collection of Permissions based on the given String representation.
   *
   * @param roleString the String representation of a role name to resolve.
   * @return a Collection of Permissions based on the given String representation.
   */
  Collection<Permission> resolvePermissionsInRole(String roleString);

}
```

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*/
/**
* Support and default implementations for Shiro's {@link org.apache.shiro.authz.Permission Permission}
* interface.
* <p/>
* Also note the {@link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver} interface, as
* it plays an important part in many of Shiro's {@link org.apache.shiro.realm.Realm Realm} implementations
* and AOP support.
*/
package org.apache.shiro.authz.permission;
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;



/**
* Thrown by {@link PermissionResolver#resolvePermission(String)} when the String being parsed is not
* valid for that resolver.
*
* @since 0.9
*/
public class InvalidPermissionStringException extends ShiroException
{
```

```
    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message          the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }


}
```

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The implementation for org.apache.shiro.util.SoftHashMap is based
on initial ideas from Dr. Heinz Kabutz's publicly posted version
available at http://www.javaspecialists.eu/archive/Issue015.html,
with continued modifications.

Certain parts (StringUtils etc.) of the source code for this
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*/
package org.apache.shiro.authz;

/**
* A Permission represents the ability to perform an action or access a resource.  A Permission is the most
* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
* models are built.
* <p/>
* It is important to understand a Permission instance only represents functionality or access - it does not grant it.
* Granting access to an application functionality or a particular resource is done by the application's security
* configuration, typically by assigning Permissions to users, roles and/or groups.
* <p/>
* Most typical systems are what the Shiro team calls <em>role-based</em> in nature, where a role represents
* common behavior for certain user types.  For example, a system might have an <em>Aministrator</em> role, a
* <em>User</em> or <em>Guest</em> roles, etc.
* <p/>
* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
* role names in your code.  In this environment, roles themselves aren't aren't very useful.  What matters is what
* <em>permissions</em> are assigned to these roles.
* <p/>
* Under this paradigm, permissions are immutable and reflect an application's raw functionality
* (opening files, accessing a web URL, creating users, etc).  This is what allows a system's security policy
* to be dynamic: because Permissions represent raw functionality and only change when the application's
* source code changes, they are immutable at runtime - they represent 'what' the system can do.  Roles, users, and
* groups are the 'who' of the application.  Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.
* <p/>
* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
* association, the user 'has' the permissions in their roles.  There are numerous variations on this theme
* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
* have roles, etc, etc).  When employing a permission-based security model instead of a role-based one, users, roles,
* and groups can all be created, configured and/or deleted at runtime.  This enables  an extremely powerful security
* model.
* <p/>
* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or
* dynamic role w/ permission schemes, it does not require a system to model their security data this way - all
* Permission checks are relegated to {@link org.apache.shiro.realm.Realm} implementations, and only those
```

```
* implementations really determine how a user 'has' a permission or not.  The Realm could use the semantics
described
* here, or it could utilize some other mechanism entirely - it is always up to the application developer.
* <p/>
* Shiro provides a very powerful default implementation of this interface in the form of the
* {@link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission}.  We highly recommend that
you
* investigate this class before trying to implement your own <code>Permission</code>s.
*
* @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission
* @since 0.2
*/
public interface Permission {

  /**
   * Returns {@code true} if this current instance <em>implies</em> all the functionality and/or resource access
   * described by the specified {@code Permission} argument, {@code false} otherwise.
   * <p/>
   * <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionalty
   * and/or resource access described by the given {@code Permission} argument.  Yet another way of saying this
   * would be:
   * <p/>
   * <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,
   * then any Subject granted {@code permission1} would have ability greater than or equal to that defined by
   * {@code permission2}.
   *
   * @param p the permission to check for behavior/functionality comparison.
   * @return {@code true} if this current instance <em>implies</em> all the functionality and/or resource access
   *         described by the specified {@code Permission} argument, {@code false} otherwise.
   */
  boolean implies(Permission p);
}
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```
* under the License.
*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;

import java.io.Serializable;
import java.util.ArrayList;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;

/**
* A <code>WildcardPermission</code> is a very flexible permission construct supporting multiple levels of
* permission matching. However, most people will probably follow some standard conventions as explained below.
* <p/>
* <h3>Simple Usage</h3>
* <p/>
* In the simplest form, <code>WildcardPermission</code> can be used as a simple permission string. You could
grant a
* user an "editNewsletter" permission and then check to see if the user has the editNewsletter
* permission by calling
* <p/>
* <code>subject.isPermitted("editNewsletter")</code>
* <p/>
* This is (mostly) equivalent to
* <p/>
* <code>subject.isPermitted( new WildcardPermission("editNewsletter") )</code>
* <p/>
* but more on that later.
* <p/>
* The simple permission string may work for simple applications, but it requires you to have permissions like
* <code>"viewNewsletter"</code>, <code>"deleteNewsletter"</code>,
* <code>"createNewsletter"</code>, etc. You can also grant a user <code>"*"</code> permissions
* using the wildcard character (giving this class its name), which means they have <em>all</em> permissions. But
* using this approach there's no way to just say a user has "all newsletter permissions".
* <p/>
* For this reason, <code>WildcardPermission</code> supports multiple <em>levels</em> of permissioning.
* <p/>
* <h3>Multiple Levels</h3>
* <p/>
* WildcardPermission</code> also supports the concept of multiple <em>levels</em>.  For example, you could
* restructure the previous simple example by granting a user the permission <code>"newsletter:edit"</code>.
* The colon in this example is a special character used by the <code>WildcardPermission</code> that delimits the
* next token in the permission.
* <p/>
* In this example, the first token is the <em>domain</em> that is being operated on
```

```
* and the second token is the <em>action</em> being performed. Each level can contain multiple values.  So you
* could simply grant a user the permission <code>"newsletter:view,edit,create"</code> which gives them
* access to perform <code>view</code>, <code>edit</code>, and <code>create</code> actions in the
<code>newsletter</code>
* <em>domain</em>. Then you could check to see if the user has the <code>"newsletter:create"</code>
* permission by calling
* <p/>
* <code>subject.isPermitted("newsletter:create")</code>
* <p/>
* (which would return true).
* <p/>
* In addition to granting multiple permissions via a single string, you can grant all permission for a particular
* level. So if you wanted to grant a user all actions in the <code>newsletter</code> domain, you could simply give
* them <code>"newsletter:*"</code>. Now, any permission check for <code>"newsletter:XXX"</code>
* will return <code>true</code>. It is also possible to use the wildcard token at the domain level (or both): so you
* could grant a user the <code>"view"</code> action across all domains <code>"*:view"</code>.
* <p/>
* <h3>Instance-level Access Control</h3>
* <p/>
* Another common usage of the <code>WildcardPermission</code> is to model instance-level Access Control
Lists.
* In this scenario you use three tokens - the first is the <em>domain</em>, the second is the <em>action</em>, and
* the third is the <em>instance</em> you are acting on.
* <p/>
* So for example you could grant a user <code>"newsletter:edit:12,13,18"</code>.  In this example, assume
* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters
* <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express
permissions,
* since you can now say things like <code>"newsletter:*:13"</code> (grant a user all actions for newsletter
* <code>13</code>), <code>"newsletter:view,create,edit:*"</code> (allow the user to
* <code>view</code>, <code>create</code>, or <code>edit</code> <em>any</em> newsletter), or
* <code>"newsletter:*:*</code> (allow the user to perform <em>any</em> action on <em>any</em> newsletter).
* <p/>
* To perform checks against these instance-level permissions, the application should include the instance ID in the
* permission check like so:
* <p/>
* <code>subject.isPermitted( "newsletter:edit:13" )</code>
* <p/>
* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that
* this could be used in your application.  However, the Shiro team likes to standardize some common usages shown
* above to help people get started and provide consistency in the Shiro community.
*
* @since 0.9
*/
public class WildcardPermission implements Permission, Serializable {

  //TODO - JavaDoc methods
```

```
  /*--------------------------------------------
  |         C O N S T A N T S          |
  ============================================*/
  protected static final String WILDCARD_TOKEN = "*";
  protected static final String PART_DIVIDER_TOKEN = ":";
  protected static final String SUBPART_DIVIDER_TOKEN = ",";
  protected static final boolean DEFAULT_CASE_SENSITIVE = false;

  /*--------------------------------------------
  |  I N S T A N C E  V A R I A B L E S  |
  ============================================*/
  private List<Set<String>> parts;

  /*--------------------------------------------
  |      C O N S T R U C T O R S        |
  ============================================*/
  /**
   * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
   * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
   * <p/>
   * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
   * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
   * {@code UserPermission}, {@code SystemPermission}, {@code PrinterPermission}, etc.  If you want such
type-safe
   * permission usage, consider subclassing the {@link DomainPermission DomainPermission} class for your
needs.
   */
  protected WildcardPermission() {
  }

  public WildcardPermission(String wildcardString) {
     this(wildcardString, DEFAULT_CASE_SENSITIVE);
  }

  public WildcardPermission(String wildcardString, boolean caseSensitive) {
     setParts(wildcardString, caseSensitive);
  }

  protected void setParts(String wildcardString) {
     setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
  }

  protected void setParts(String wildcardString, boolean caseSensitive) {
     if (wildcardString == null || wildcardString.trim().length() == 0) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
     }
```

```
        wildcardString = wildcardString.trim();

        List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

        this.parts = new ArrayList<Set<String>>();
        for (String part : parts) {
            Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
            if (!caseSensitive) {
                subparts = lowercase(subparts);
            }
            if (subparts.isEmpty()) {
                throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
            }
            this.parts.add(subparts);
        }

        if (this.parts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission
strings are properly formatted.");
        }
    }

    private Set<String> lowercase(Set<String> subparts) {
        Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());
        for (String subpart : subparts) {
            lowerCasedSubparts.add(subpart.toLowerCase());
        }
        return lowerCasedSubparts;
    }

    /*--------------------------------------------
    | A C C E S S O R S / M O D I F I E R S   |
    ============================================*/
    protected List<Set<String>> getParts() {
        return this.parts;
    }

    /*--------------------------------------------
    |           M E T H O D S                  |
    ============================================*/

    public boolean implies(Permission p) {
        // By default only supports comparisons with other WildcardPermissions
        if (!(p instanceof WildcardPermission)) {
            return false;
        }
```

```
    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {
            return true;
        } else {
            Set<String> part = getParts().get(i);
            if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
                return false;
            }
            i++;
        }
    }

    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN)) {
            return false;
        }
    }

    return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
        buffer.append(part);
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}
```

```
  public int hashCode() {
     return parts.hashCode();
  }

}
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;


/**
* <tt>PermissionResolver</tt> implementation that returns a new {@link WildcardPermission
WildcardPermission}
* based on the input string.
*
* @since 0.9
*/
public class WildcardPermissionResolver implements PermissionResolver {

  /**
   * Returns a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
   * <tt>permissionString</tt>.
   *
   * @param permissionString the permission string to convert to a {@link Permission Permission} instance.
   * @return a new {@link WildcardPermission WildcardPermission} instance constructed based on the specified
   *         <tt>permissionString</tt>
   */
  public Permission resolvePermission(String permissionString) {
     return new WildcardPermission(permissionString);
```

```
  }
}
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*/
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import org.junit.Test;


/**
* @since 0.9
*/
public class WildcardPermissionTest {

  @Test(expected = IllegalArgumentException.class)
  public void testNull() {
     new WildcardPermission(null);
  }

  @Test(expected = IllegalArgumentException.class)
  public void testEmpty() {
     new WildcardPermission("");
  }

  @Test(expected = IllegalArgumentException.class)
  public void testBlank() {
     new WildcardPermission("    ");
  }

  @Test(expected = IllegalArgumentException.class)
```

```
public void testOnlyDelimiters() {
    new WildcardPermission("::,,::,:");
}

@Test
public void testNamed() {
    WildcardPermission p1, p2;

    // Case insensitive, same
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("something");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different case
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("SOMETHING");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different word
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("else");
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));

    // Case sensitive same
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("BLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different case
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("bLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different word
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("whatwhat", false);
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));

}

@Test
public void testLists() {
```

```
    WildcardPermission p1, p2, p3;

    p1 = new WildcardPermission("one,two");
    p2 = new WildcardPermission("one");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two,three");
    p2 = new WildcardPermission("one,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two:one,two,three");
    p2 = new WildcardPermission("one:three");
    p3 = new WildcardPermission("one:two,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p3));
    assertTrue(p3.implies(p2));

    p1 = new WildcardPermission("one,two,three:one,two,three:one,two");
    p2 = new WildcardPermission("one:three:two");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one");
    p2 = new WildcardPermission("one:two,three,four");
    p3 = new WildcardPermission("one:two,three,four:five:six:seven");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p1));
    assertFalse(p3.implies(p1));
    assertTrue(p2.implies(p3));

}

@Test
public void testWildcards() {
    WildcardPermission p1, p2, p3, p4, p5, p6, p7, p8;

    p1 = new WildcardPermission("*");
    p2 = new WildcardPermission("one");
    p3 = new WildcardPermission("one:two");
    p4 = new WildcardPermission("one,two:three,four");
    p5 = new WildcardPermission("one,two:three,four,five:six:seven,eight");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
```

```
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));

p1 = new WildcardPermission("newsletter:*");
p2 = new WildcardPermission("newsletter:read");
p3 = new WildcardPermission("newsletter:read,write");
p4 = new WildcardPermission("newsletter:*");
p5 = new WildcardPermission("newsletter:*:*");
p6 = new WildcardPermission("newsletter:*:read");
p7 = new WildcardPermission("newsletter:write:*");
p8 = new WildcardPermission("newsletter:read,write:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));


p1 = new WildcardPermission("newsletter:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));

p1 = new WildcardPermission("newsletter:*:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));

p1 = new WildcardPermission("newsletter:*:read");
p2 = new WildcardPermission("newsletter:123:read");
p3 = new WildcardPermission("newsletter:123,456:read,write");
p4 = new WildcardPermission("newsletter:read");
p5 = new WildcardPermission("newsletter:read,write");
p6 = new WildcardPermission("newsletter:123:read:write");
assertTrue(p1.implies(p2));
assertFalse(p1.implies(p3));
assertFalse(p1.implies(p4));
assertFalse(p1.implies(p5));
```

```
        assertTrue(p1.implies(p6));

        p1 = new WildcardPermission("newsletter:*:read:*");
        assertTrue(p1.implies(p2));
        assertTrue(p1.implies(p6));

    }

}
```

1.387 commons-lang 2.4

1.388 javassist 3.17.1

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1.389 apache-commons-logging 1.2

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package org.apache.commons.httpclient;

import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
```

```
* Closes an underlying stream as soon as the end of the stream is reached, and
* notifies a client when it has done so.
*
* @author Ortwin Glueck
* @author Eric Johnson
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @since 2.0
*/
class AutoCloseInputStream extends FilterInputStream {

  /**
   * True if this stream is open.  Assume that the underlying stream
   * is open until we get an EOF indication.
   */
  private boolean streamOpen = true;

  /** True if the stream closed itself. */
  private boolean selfClosed = false;

  /**
   * The watcher is notified when the contents of the stream have
   * been  exhausted
   */
  private ResponseConsumedWatcher watcher = null;

  /**
   * Create a new auto closing stream for the provided connection
   *
   * @param in the input stream to read from
   * @param watcher   To be notified when the contents of the stream have been
   *  consumed.
   */
  public AutoCloseInputStream(
        final InputStream in, final ResponseConsumedWatcher watcher) {
    super(in);
    this.watcher = watcher;
  }

  /**
   * Reads the next byte of data from the input stream.
   *
   * @throws IOException when there is an error reading
   * @return the character read, or -1 for EOF
   */
  public int read() throws IOException {
    int l = -1;
```

```
    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }

    return l;
}

/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b,  off,  len);
        checkClose(l);
    }

    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
```

```
     * Close the stream, and also close the underlying stream if it is not
     * already closed.
     * @throws IOException If an IO problem occurs.
     */
    public void close() throws IOException {
        if (!selfClosed) {
            selfClosed = true;
            notifyWatcher();
        }
    }

    /**
     * Close the underlying stream should the end of the stream arrive.
     *
     * @param readResult    The result of the read operation to check.
     * @throws IOException If an IO problem occurs.
     */
    private void checkClose(int readResult) throws IOException {
        if (readResult == -1) {
            notifyWatcher();
        }
    }

    /**
     * See whether a read of the underlying stream should be allowed, and if
     * not, check to see whether our stream has already been closed!
     *
     * @return <code>true</code> if it is still OK to read from the stream.
     * @throws IOException If an IO problem occurs.
     */
    private boolean isReadAllowed() throws IOException {
        if (!streamOpen && selfClosed) {
            throw new IOException("Attempted read on closed stream.");
        }
        return streamOpen;
    }

    /**
     * Notify the watcher that the contents have been consumed.
     * @throws IOException If an IO problem occurs.
     */
    private void notifyWatcher() throws IOException {
        if (streamOpen) {
            super.close();
            streamOpen = false;

            if (watcher != null) {
                watcher.responseConsumed();
```

```
        }
      }
    }
  }
```

1.392 jetty-continuation 9.3.27.v20190418

1.393 jnr-posix 3.0.27

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*/

```
package javax.activation;

import java.util.Map;
import java.util.WeakHashMap;


/**
* The CommandMap class provides an interface to a registry of
* command objects available in the system.
* Developers are expected to either use the CommandMap
* implementation included with this package (MailcapCommandMap) or
* develop their own. Note that some of the methods in this class are
* abstract.
```

```
*/
public abstract class CommandMap {
  private static CommandMap defaultCommandMap = null;
  private static Map<ClassLoader,CommandMap> map =
   new WeakHashMap<ClassLoader,CommandMap>();


  /**
   * Get the default CommandMap.
   *
   * <ul>
   * <li> In cases where a CommandMap instance has been previously set
   *      to some value (via <i>setDefaultCommandMap</i>)
   *  return the CommandMap.
   * <li>
   *  In cases where no CommandMap has been set, the CommandMap
   *       creates an instance of <code>MailcapCommandMap</code> and
   *       set that to the default, returning its value.
   *
   * </ul>
   *
   * @return the CommandMap
   */
  public static synchronized CommandMap getDefaultCommandMap() {
 if (defaultCommandMap != null)
    return defaultCommandMap;

 // fetch per-thread-context-class-loader default
 ClassLoader tccl = SecuritySupport.getContextClassLoader();
 CommandMap def = map.get(tccl);
 if (def == null) {
    def = new MailcapCommandMap();
    map.put(tccl, def);
 }
 return def;
  }

  /**
   * Set the default CommandMap. Reset the CommandMap to the default by
   * calling this method with <code>null</code>.
   *
   * @param commandMap The new default CommandMap.
   * @exception SecurityException if the caller doesn't have permission
   *     to change the default
   */
  public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
 SecurityManager security = System.getSecurityManager();
 if (security != null) {
```

```
    try {
  // if it's ok with the SecurityManager, it's ok with me...
  security.checkSetFactory();
    } catch (SecurityException ex) {
  // otherwise, we also allow it if this code and the
  // factory come from the same (non-system) class loader (e.g.,
  // the JAF classes were loaded with the applet classes).
  ClassLoader cl = CommandMap.class.getClassLoader();
  if (cl == null || cl.getParent() == null ||
      cl != commandMap.getClass().getClassLoader()) {
      throw ex;
  }
    }
}
// remove any per-thread-context-class-loader CommandMap
map.remove(SecuritySupport.getContextClassLoader());
defaultCommandMap = commandMap;
  }

  /**
   * Get the preferred command list from a MIME Type. The actual semantics
   * are determined by the implementation of the CommandMap.
   *
   * @param mimeType the MIME type
   * @return the CommandInfo classes that represent the command Beans.
   */
  abstract public  CommandInfo[] getPreferredCommands(String mimeType);

  /**
   * Get the preferred command list from a MIME Type. The actual semantics
   * are determined by the implementation of the CommandMap. <p>
   *
   * The <code>DataSource</code> provides extra information, such as
   * the file name, that a CommandMap implementation may use to further
   * refine the list of commands that are returned.  The implementation
   * in this class simply calls the <code>getPreferredCommands</code>
   * method that ignores this argument.
   *
   * @param mimeType the MIME type
   * @param ds a DataSource for the data
   * @return the CommandInfo classes that represent the command Beans.
   * @since JAF 1.1
   */
  public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
return getPreferredCommands(mimeType);
  }

  /**
```

```
     * Get all the available commands for this type. This method
     * should return all the possible commands for this MIME type.
     *
     * @param mimeType the MIME type
     * @return the CommandInfo objects representing all the commands.
     */
    abstract public CommandInfo[] getAllCommands(String mimeType);

    /**
     * Get all the available commands for this type. This method
     * should return all the possible commands for this MIME type. <p>
     *
     * The <code>DataSource</code> provides extra information, such as
     * the file name, that a CommandMap implementation may use to further
     * refine the list of commands that are returned.  The implementation
     * in this class simply calls the <code>getAllCommands</code>
     * method that ignores this argument.
     *
     * @param mimeType the MIME type
     * @param ds a DataSource for the data
     * @return the CommandInfo objects representing all the commands.
     * @since JAF 1.1
     */
    public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
    return getAllCommands(mimeType);
    }

    /**
     * Get the default command corresponding to the MIME type.
     *
     * @param mimeType the MIME type
     * @param cmdName the command name
     * @return the CommandInfo corresponding to the command.
     */
    abstract public CommandInfo getCommand(String mimeType, String cmdName);

    /**
     * Get the default command corresponding to the MIME type. <p>
     *
     * The <code>DataSource</code> provides extra information, such as
     * the file name, that a CommandMap implementation may use to further
     * refine the command that is chosen.  The implementation
     * in this class simply calls the <code>getCommand</code>
     * method that ignores this argument.
     *
     * @param mimeType the MIME type
     * @param cmdName the command name
     * @param ds a DataSource for the data
```

```
   * @return the CommandInfo corresponding to the command.
   * @since JAF 1.1
   */
  public CommandInfo getCommand(String mimeType, String cmdName,
   DataSource ds) {
return getCommand(mimeType, cmdName);
  }

  /**
   * Locate a DataContentHandler that corresponds to the MIME type.
   * The mechanism and semantics for determining this are determined
   * by the implementation of the particular CommandMap.
   *
   * @param mimeType the MIME type
   * @return  the DataContentHandler for the MIME type
   */
  abstract public DataContentHandler createDataContentHandler(String
      mimeType);

  /**
   * Locate a DataContentHandler that corresponds to the MIME type.
   * The mechanism and semantics for determining this are determined
   * by the implementation of the particular CommandMap. <p>
   *
   * The <code>DataSource</code> provides extra information, such as
   * the file name, that a CommandMap implementation may use to further
   * refine the choice of DataContentHandler.  The implementation
   * in this class simply calls the <code>createDataContentHandler</code>
   * method that ignores this argument.
   *
   * @param mimeType the MIME type
   * @param ds a DataSource for the data
   * @return  the DataContentHandler for the MIME type
   * @since JAF 1.1
   */
  public DataContentHandler createDataContentHandler(String mimeType,
   DataSource ds) {
return createDataContentHandler(mimeType);
  }

  /**
   * Get all the MIME types known to this command map.
   * If the command map doesn't support this operation,
   * null is returned.
   *
   * @return  array of MIME types as strings, or null if not supported
   * @since JAF 1.1
   */
```

```
  public String[] getMimeTypes() {
 return null;
  }
}
```

1.397 google-http-client 1.15.0

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1.398 jackson-module-jaxb-annotations 2.9.8

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