



Open Source Used In Webex Train T33.8

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In your requests please include the following reference number **78EE117C99-189236026**

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5.1 JDNC 474

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T38.11 - WebACD T38.11

6.1 Code Project - Synchronized multi-threading in C++ (No MFC!) (none)

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6.2 Code Project - Templates and MFC (none)

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6.3 nicelibs 130.50325.01

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7.1 Chromium (logging) 865

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2.15 SRTP1.4.2 1.4.2

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2.18 tiny xml 2.6.2 2.6.2

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modules/audio_coding/codecs/g722/main/source/g722_encode.c
modules/audio_coding/codecs/isac/main/source/fft.c
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common_audio/signal_processing/spl_sqrt_floor_arm.S

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/*

* Written by Wilco Dijkstra, 1996. The following email exchange establishes the
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*

* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

* Date: Fri, Jun 24, 2011 at 3:20 AM

* Subject: Re: sqrt routine

* To: Kevin Ma <kma@google.com>

* Hi Kevin,

* Thanks for asking. Those routines are public domain (originally posted to

* comp.sys.arm a long time ago), so you can use them freely for any purpose.

* Cheers,

* Wilco

*

* ----- Original Message -----

* From: "Kevin Ma" <kma@google.com>

* To: <Wilco.Dijkstra@ntlworld.com>

* Sent: Thursday, June 23, 2011 11:44 PM

* Subject: Fwd: sqrt routine

* Hi Wilco,

* I saw your sqrt routine from several web sites, including

* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

Files:

modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

License:

/*
* SpanDSP - a series of DSP components for telephony
*
* g711.h - In line A-law and u-law conversion routines
*
* Written by Steve Underwood <steveu@coppice.org>
*
* Copyright (C) 2001 Steve Underwood
*
* Despite my general liking of the GPL, I place this code in the
* public domain for the benefit of all mankind - even the slimy
* ones who might try to proprietize my work and use it to my
* detriment.
*/

Files:

modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c

License:

/*
* SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
*
* Written by Steve Underwood <steveu@coppice.org>
*
* Copyright (C) 2005 Steve Underwood
*
* Despite my general liking of the GPL, I place my own contributions
* to this code in the public domain for the benefit of all mankind -
* even the slimy ones who might try to proprietize my work and use it
* to my detriment.
*
* Based in part on a single channel G.722 codec which is:
*
*/

* Copyright (c) CMU 1993
* Computer Science, Speech Group
* Chengxiang Lu and Alex Hauptmann
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modules/audio_coding/codecs/isac/main/source/fft.c

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*/

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modules/audio_device/mac/portaudio/pa_memorybarrier.h
modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:

/*
* \$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
*/

* This program uses the PortAudio Portable Audio Library.
 * For more information see: <http://www.portaudio.com>
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 */

/*
 * \$Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *

* Author: Phil Burk, <http://www.softsynth.com>
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *

* Note that this is safe only for a single-thread reader and a
 * single-thread writer.

*
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modules/audio_processing/utility/fft4g.c

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//  
// See http://www.boost.org/libs/smart\_ptr/scoped\_ptr.htm for documentation.  
//
```

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system_wrappers/source/condition_variable_event_win.cc

Source:

<http://www1.cse.wustl.edu/~schmidt/ACE-copying.html>

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system_wrappers/source/set_thread_name_win.h

Source:

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3.3 gtest 1.5.0

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3.6 tiny xml 2.6.2 2.6.2

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4.4 aspectjweaver 1.8.13

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4.5 axis-1.4 1.4

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4.8 axis-wsdl4j 1.5.1

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- Jön Schwarze <JSchwarze@ulc.de> - Locale fix for the clean room JCE.
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- Mariusz Bandola <mariusz.bandola@cryptotech.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@transacttools.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@haywood.bpa.nu> - addition of getSignatureType to PGPSignature.
- Jonathan Edwards <s34gull@mac.com> - initial support for reading multiple rings from a PGP key file.
- Andrew Thornton <andrew@caret.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 content 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 overread 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 Scandoni <nscandoni#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 Delgado <javi@javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala@cern.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@sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin@yahoo.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@keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk@jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshakov <tyrex@reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.
Soren Hilmer <soren.hilmer@tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
Steve Mitchell <mitchell@intertrust.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@seeburger.de> - initial implementation of ISO 78164-4 padding.
Julien Pasquier <julienpasquier@free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.
Andrew Paterson <andrew.paterson@burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
Vladimir Molotkov <vladimir.n.molotkov@intel.com> - extensive provider exception handling compliance testing.
Florin Kollan <adlocflo@web.de> - fix to ElGamalKeyParameters equality testing.
Pavel Vassiliev <paulvas@gmail.com> - Initial GOST28147Mac implementation.
Tom Pesman <tom@tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
Arndt Hasch <Arndt.Hasch@maxence.de> - additional fix for partial reading with new style PGP packets.
Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee@Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5@embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung@hotmail.com> - patch for out of bounds problem in getDecoderStream method.
Chris Schultz <cschultz@gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
David M. Lee <dmlee@Crossroads.com> - implementation assistance with streaming CMS classes.
Joel Rees <rees@ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.

- Francesc Sau <francesc.sau@partners.netfocus.es> - micro fix for tsp Accuracy class.
- Larry Bugbee <bugbee@mac.com> - initial ECNR implementation.
- Remi Blancher <Remi.Blancher@keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke <brianorourke@gmail.com> - patch for signature creation time override in OpenPGP.
- Andreas Schwier <andreas.schwier@cardcontact.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@transacttools.net> - Patch for trailer function in version 2 signature packets.
- Kishimoto Kazuhiko <kazu-k@hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
- Lawrence Tan <lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.
- Carlos Valiente <superdupont@gmail.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@bluewin.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@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
- Karsten Ohme <widerstand@t-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. 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@tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.
- John Alfred Prufrock <j.a.prufrock@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
- Stefan Neusatz Guilhen <sneusatz@gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
- Marzio Lo Giudice <marzio.logiudice@gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.
- Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.
- Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.
- Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
- Lijun Liao <lijun.liao@rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.

- Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.
- Armin Häberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
- Marius Schilder <mschilder@gmail.com> - main set of test vectors for Bleichenbacher's forgery attack.
- Xavier Le Vouch <xavier@brittanysoftware.com> - general code clean ups.
- Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
- Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- Frank Cornelis <info@frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
- Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
- David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader
- Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
- Olga Käthler <olga.kaethler@hjp 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@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- Núria María <numaa@hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@tzi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.
- Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdz@rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.
- Mike StJohns <mstjohns@comcast.net> - updates to KeyPurposeId
- J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com> - patch to construtor for CRMF CertSequence.

- Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].
- Alex Dupre <ale@FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
- Michael Schoene <michael@sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
- Ion Larrañaga <ilarra@s21sec.com> fix to default partial packet generation in BCPGOutputStream.
- Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.
- Stefan Meyer <stefan.meyer@ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
- Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
- Rui Hodai <rui@po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
- Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.
- Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.
- Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
- Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate generation.
- Cagdas Cirit <cagdasirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
- Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.
- Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAPEncoding.
- Lothar Kimmeringer <job@kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal.
- Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
- Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.
- Elisabetta Romani <eromani@sogei.it> patch for recognising multiple counter signatures.
- Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
- Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
- Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
- Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
- Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
- Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
- Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
- Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
- Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.

- Michael <mfau@t-online.de> correction of field error in getResponse method in CertRepMessage.
- Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.
- Markus Kilås <markus@primekey.se> several enhancements to TimeStampResponseGenerator.
- Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.
- Alex Birkett <alex@birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@gmail.com> additional OIDs for PKCS10 and certificate generation support.
- Frank Cornelis <info@frankcornelis.be> additional support classes for CAES, enhancements to OCSP classes.
- Jan Dittberner <jan@dittberner.info> addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@btinternet.com> patch to support different content and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@gmail.com> patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@insiel.it> contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikociski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@hjp-consulting.com> fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@google.com> additional functionality to PGPKKeyRing.
- Atanas Krachev <akrachev@gmail.com> added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@keynectis.com> initial cut of EAC classes.
- Tim Buktu <tbuktu@hotmail.com> Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@BEKK.no> Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@tngtech.com> Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
- Andy Neilson <Andy.Neilson@quest.com>a further patches to deal with multiple providers and PEMReader.
- Ted Shaw <xiao.xj@gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
- Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for

SIC/CTR mode. Provider compatilby generalisations for EC operations.
Kenny Root <kenny@the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
Maarten Bodewes <maarten.bodewes@gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b@yahoo.com> Initial implementation of J-PAKE.
Brian Carlstrom <bdc@carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel@primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner@certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington <Tim.Whittington@orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.
Marcus Lundblad <marcus.lundblad@primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
Andrey Zhozhin <zhozhin@xrm.ru> patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d@gmail.com> initial cut of DVCS classes.
Damian Kolasa <fatfredyy@gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes@blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev@daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome@gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.
Matti Aarnio <matti.aarnio@methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.
Babak Najafi <bnajafi@akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
Eric Mueller <eric.mueller@sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.
Mathias Herberts <Mathias.Herberts@gmail.com> fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov@gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86@gmail.com> contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc@gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis@ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.
Roberto Tyley <> further work on completing gradle build.

- Waldemar Dick <wdick@devmue.de> code improvement in x500 ASN.1 package.
- Sid Steward <sid.steward@pdflabs.com> code improvements to ASN1Boolean.
- Alex Klyubin <klyubin@google.com> AlgorithmParameters check for EC key agreement.
- Jonathan Gillett <gsoc.student@gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter <andreas.reiter@iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller <kieran.miller@gmail.com> initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli<ehli@arago.de> Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt<Daniel.Heldt@cryptovision.com> Initial support for encodable state message digests
- Robert Bushman <bouncycastle@traxel.com> Clean up of DirectKeySignature example.
- Maurice Aarts<aarts@riscure.com> updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
- KB Sriram<mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze<marco@nightlabs.de> Reported verification bug in GenericSigner.
- Martin Schaef<https://github.com/martinschaef> contributed a code-cleanup patch.
- Lijun Liao<&jun.liao@gmail.com>gt; addition of getSignatureAlgorithmID to BasicOCSPResp.
- dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
- Tobias Wich<tobias.wich@ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrtens<hauke@hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman<dmz@galois.com> Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitzka<ltj.kapitzka@schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund<johan@primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch <axel-vdb@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
- Derek Atkins <derek@ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky <peto@halicky.sk> Correction to notification/error message handling in SignedMailValidator.
- lartiguePierre<https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.
- Thomas Belot<thomas.belot+BC@gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björjn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael <MSKnete@web.de> initial fix for bitStrength issue for OpenPGP EC keys.
- Tobias Wagner <tobias.wagner@n-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.org> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content 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.
- Andr e Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
- Slawomir Jaranowski<https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.
- William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele <jnaegele@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<https://github.com/andybons> NullPointer patch for WNafUtil.
- The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.
- The Intel Security Team <> analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.

</body>

</html>

4.11 byte-buddy 1.7.10

4.12 byte-buddy-dep 1.6.5

4.13 Camel 2.8.2 :2.8.2

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4.14 cglib 2.2

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4.15 classmate 1.3.4

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Other developers who have contributed code are:

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4.16 commons-beanutils 1.9.2

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4.27 concurrentlinkedhashmap-lru 1.4.2

4.28 dom4j 1.6.1

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4.29 el-api 2.2

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4.30 ezmorph 1.0.6

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4.33 hamcrest-core 1.3

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4.34 hibernate-validator 6.0.9

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```
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```

```
<!--
```

```
~ Hibernate Validator, declare and validate application constraints
```

```
~
```

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```

```
-->
```

```
<validation-config
```

```
  xmlns="http://jboss.org/xml/ns/javax/validation/configuration"
```

```
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
  xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
```

```
  version="1.1">
```

```
  <property
```

```
    name="hibernate.validator.constraint_mapping_contributor">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor1</property>
```

```
  <property
```

```
    name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>
```

```
</validation-config>
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--
```

```
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```

```
~
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```

```
-->
```

```
<validation-config
```

```
  xmlns="http://jboss.org/xml/ns/javax/validation/configuration"
```

```
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
  xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
```

```
  version="1.1">
```

```
  <property
```

```
    name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor1,org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>
```

```
</validation-config>
```

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```
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```

```
<!--
```

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```

```

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-->
<validation-config
  xmlns="http://jboss.org/xml/ns/javax/validation/configuration"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
  version="1.1">

  <property
name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.integration.wildfly.MyConstraintMappingContributor</property>
</validation-config>
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

```

Other developers who have contributed code are:

* Brian Langel

```

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4.35 HikariCP 2.7.8

4.36 httpcomponents-client 4.5.5

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4.41 jackson-datatype-jdk8 2.9.5

4.42 jackson-datatype-jsr310 2.9.5

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4.44 jackson-mapper-asl-1.9.13 1.9.13

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/* Jackson JSON-processor.

*

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4.45 jackson-module-parameter-names 2.9.6

4.46 javassist 3.20.0-GA

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<dd>means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

<dt id="section-1.11">1.11. "Source Code"

<dd>means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

<dt id="section-1.12">1.12. "You" (or "Your")

<dd>means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial

ownership of such entity.

</dl>

<h2 id="section-2">2. Source Code License.</h2>

<h3 id="section-2.1">2.1. The Initial Developer Grant.</h3>

<p>The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

<ol type="a">

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<li id="section-2.1-c">the licenses granted in this Section 2.1

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<h3 id="section-2.2">2.2. Contributor Grant.</h3>

<p>Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

<ol type="a">

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<li id="section-2.2-c">the licenses granted in Sections 2.2

(a) and 2.2 (b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

<li id="section-2.2-d">Notwithstanding Section 2.2 (b)

above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code

in the absence of Modifications made by that Contributor.

<h2 id="section-3">3. Distribution Obligations.</h2>

<h3 id="section-3.1">3.1. Application of License.</h3>

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<h3 id="section-3.2">3.2. Availability of Source Code.</h3>

<p>Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.</p>

<h3 id="section-3.3">3.3. Description of Modifications.</h3>

<p>You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.</p>

<h3 id="section-3.4">3.4. Intellectual Property Matters</h3>

<h4 id="section-3.4-a">(a) Third Party Claims</h4>

<p>If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.</p>

<h4 id="section-3.4-b">(b) Contributor APIs</h4>

<p>If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that <abbr>API</abbr>, Contributor must also include this information in the <strong class="very-strong">legal file.</p>

<h4 id="section-3.4-c">(c) Representations.</h4>

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<h3 id="section-3.5">3.5. Required Notices.</h3>

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<h2 id="section-11">11. Miscellaneous</h2>

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<p>NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.

```

</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">

<head>
<!-- start of server/head-include-1.html -->
<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rev="made" href="mailto:webmasters@gnu.org" />
<link rel="icon" type="image/png" href="/graphics/gnu-head-mini.png" />
<meta name="ICBM" content="42.355469,-71.058627" />
<meta name="DC.title" content="gnu.org" />
<link rel="stylesheet" href="/combo.css" media="screen" />
<link rel="stylesheet" href="/mini.css" media="handheld" />
<link rel="stylesheet" href="/layout.min.css" media="screen" />
<link rel="stylesheet" href="/print.min.css" media="print" />
<!-- end of server/head-include-1.html -->

<!-- end of server/header.html -->

<!-- Parent-Version: 1.79 -->
<title>GNU Lesser General Public License v2.1 - GNU Project - Free Software Foundation</title>
<link rel="alternate" type="application/rdf+xml" href="lgpl-2.1.rdf" />
<!-- begin translist file -->

<link rel="alternate" type="text/html" href="/licenses/old-licenses/lgpl-2.1.html" hreflang="x-default" />
<link rel="alternate" type="text/html" lang="en" hreflang="en" href="/licenses/old-licenses/lgpl-2.1.en.html"
title="English" />
<link rel="alternate" type="text/html" lang="de" hreflang="de" href="/licenses/old-licenses/lgpl-2.1.de.html"
title="Deutsch" />
<link rel="alternate" type="text/html" lang="fr" hreflang="fr" href="/licenses/old-licenses/lgpl-2.1.fr.html"
title="français" />

```

```

<link rel="alternate" type="text/html" lang="ja" hreflang="ja" href="/licenses/old-licenses/lgpl-2.1.ja.html" title=""
/>
<link rel="alternate" type="text/html" lang="ru" hreflang="ru" href="/licenses/old-licenses/lgpl-2.1.ru.html" title=""
/>
<link rel="alternate" type="text/html" lang="uk" hreflang="uk" href="/licenses/old-licenses/lgpl-2.1.uk.html"
title="" />
<!-- end translist file -->

<!-- start of server/banner.html -->
<!-- start of head-include-2.html -->
<meta name="viewport" content="width=device-width, initial-scale=1" />
<!-- end of head-include-2.html -->

</head>
<body>
<div class="inner">
<!-- start of server/body-include-1.html -->

<div id="toplinks">
<a href="#content">Skip to main text</a>
<span class="gnun-split"></span>
<a href="/server/select-language.html?callback=/licenses/lgpl-2.1.html" rel="nofollow">
Set language
<span class="gnun-split"></span>
</a>
</div> <!-- /toplinks -->

<div id="searcher">
<form method="get" action="//www.gnu.org/cgi-bin/estseek.cgi" class="header">
<div>
<input name="phrase" id="phrase" type="text" size="18" accesskey="s"
value="Why GNU/Linux?" onfocus="this.value="" />
<input type="submit" value="Search" />
</div>
</form>
</div><!-- /searcher -->

<div id="translations">
<p>
<span dir="ltr" class="original"><a lang="en" hreflang="en" href="/licenses/old-licenses/lgpl-
2.1.en.html">English</a>&nbsp;<span>[en]</span> &nbsp;  
<span dir="ltr"><a lang="de" hreflang="de" href="/licenses/old-licenses/lgpl-
2.1.de.html">Deutsch</a>&nbsp;<span>[de]</span> &nbsp;  
<span dir="ltr"><a lang="fr" hreflang="fr" href="/licenses/old-licenses/lgpl-

```

```

2.1.fr.html">français</a>&nbsp;  [fr]</span> &nbsp;  
<span dir="ltr"><a lang="ja" hreflang="ja" href="/licenses/old-licenses/lgpl-2.1.ja.html"></a>&nbsp;  [ja]</span>
&nbsp;  
<span dir="ltr"><a lang="ru" hreflang="ru" href="/licenses/old-licenses/lgpl-2.1.ru.html"></a>&nbsp;  [ru]</span>
&nbsp;  
<span dir="ltr"><a lang="uk" hreflang="uk" href="/licenses/old-licenses/lgpl-2.1.uk.html"></a>&nbsp;  [uk]</span>
&nbsp;  
</p>
</div>

```

```

<!-- end of server/body-include-1.html -->

```

```

<!-- start of server/body-include-2 -->

```

```

<div id="header">
<div id="fsf-frame">
<p id="join-fsf"><a
href="https://www.fsf.org/associate/support_freedom?referrer=4052">JOIN&nbsp;  THE&nbsp;  FSF</a></p>
<div id="fssbox">
<p><a href="http://www.fsf.org/fss">Free Software Supporter</a></p>
<form action="https://my.fsf.org/civicrm/profile/create?reset=1&gid=31"
method="post" class="header">
<div>
<input name="postURL" type="hidden" value="" />
<input type="hidden" name="group[25]" value="1" />
<input name="cancelURL" type="hidden" value="https://crm.fsf.org/civicrm/profile?reset=1&gid=31" />
<input name="_qf_default" type="hidden" value="Edit:cancel" />
</div>
<p>
<input type="text" id="frmEmail" name="email-Primary" size="18" maxlength="80"
value="email address" onfocus="this.value=""/>
<input type="submit" name="_qf_Edit_next" value="Sign up" />
</p>
</form>
</div><!-- /fssbox -->
</div><!-- /fsf-frame -->

```

```

<div id="gnu-banner">
<a href="/">
<strong>GNU</strong> Operating
System</a>

```

```

<p id="fsf-support">Sponsored by the <a href="#mission-statement">Free Software Foundation</a></p>
</div><!-- /gnu-banner -->
</div><!-- /header -->

```

```

<div id="navigation">
<ul>

```


<li id="tabAboutGNU">ABOUT GNU

<li id="tabPhilosophy">PHILOSOPHY

<li id="tabLicenses" class="active">
 =
 LICENSES

 =

<li id="tabEducation">EDUCATION

<li id="tabSoftware">SOFTWARE

<li id="tabDoc">DOCUMENTATION

<li id="tabHelp">HELP GNU

</div><!-- /navigation -->

<!-- end of server/body-include-2 -->

<div id="content">

<!-- end of server/banner.html -->

<h2>GNU Lesser General Public License, version 2.1</h2>

The latest version of the LGPL, version 3

Why you shouldn't use the Lesser GPL for your next library

What to do if you see a possible LGPL violation

Translations of LGPLv2.1

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[standalone HTML](/licenses/old-licenses/lgpl-2.1.html), [Docbook](/licenses/old-licenses/lgpl-2.1.dbk),
[Markdown](/licenses/old-licenses/lgpl-2.1.md),
[ODF](/licenses/old-licenses/lgpl-2.1.odt),
[RTF](/licenses/old-licenses/lgpl-2.1.rtf), and
[LaTeX](/licenses/old-licenses/lgpl-2.1.tex)

Old versions of the LGPL

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!-- The license text is in English and appears broken in RTL as Arabic, Farsi, etc. Explicitly set the direction to override the one defined in the translation. -->

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Version 2.1, February 1999

```
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</pre>

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<p>

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

</p>

<p>

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

</p>

<p>

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

</p>

<p>

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

</p>

<p>

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

</p>

<p>

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

</p>

<p>

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

</p>

<p>

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

</p>

<p>

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

</p>

<p>

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

</p>

<p>

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

</p>

<p>

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

</p>

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</h3>

<p>

0.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

</p>

<p>

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

</p>

<p>

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

</p>

<p>

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

</p>

<p>

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

</p>

<p>

1.

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

</p>

<p>

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

</p>

<p>

2.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

</p>

a)

The modified work must itself be a software library.

b)

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c)

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

d)

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

<p>

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

<p>

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

</p>

<p>

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

</p>

<p>

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

</p>

<p>

3.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

</p>

<p>

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

</p>

<p>

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

</p>

<p>

4.

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

</p>

<p>

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.

</p>

<p>

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.

</p>

<p>

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.

</p>

<p>

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.

</p>

<p>

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.)

</p>

<p>

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.

</p>

<p>

6.

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

</p>

<p>

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

</p>

- a) Accompany the work with the complete corresponding machine-readable source code for the Library

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

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

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

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

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

<p>

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

</p>

<p>

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

</p>

<p>

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

</p>

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

<p>

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

</p>

<p>

9.

You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

</p>

<p>

10.

Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

</p>

<p>

11.

If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

</p>

<p>

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

</p>

<p>

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

</p>

<p>

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</p>

<p>

12.

If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

</p>

<p>

13.

The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</p>

<p>

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

</p>

<p>

14.

If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

</p>

<p>

NO WARRANTY

</p>

<p>

15.

BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</p>

<p>

16.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</p>

<h3>END OF TERMS AND CONDITIONS</h3>

<h3>How to Apply These Terms to Your New Libraries</h3>

<p>

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

</p>

<p>

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<pre>

<var>one line to give the library's name and an idea of what it does.</var>

Copyright (C) <var>year</var> <var>name of author</var>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software

Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

</pre>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

</p>

<pre>

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<var>signature of Ty Coon</var>, 1 April 1990

Ty Coon, President of Vice

</pre>

<p>

That's all there is to it!</p>

</div>

</div><!-- for id="content", starts in the include above -->

<!-- begin server/footer-text.html -->

<p id="backtotop">BACK TO TOP</p>

<hr class="no-display" />

<div id="fsf-links">

FSF

FREE SOFTWARE DIRECTORY

HARDWARE

GNU ART

GNU'S WHO?

SITE MAP

</div><!-- /fsf-links -->

<div id="mission-statement">

<blockquote>

<p>“Our

mission is to preserve, protect and promote the freedom to use, study, copy, modify, and redistribute computer software, and to defend the rights of Free Software users.”</p></blockquote>

<p>The Free Software Foundation is the principal organizational sponsor of the GNU Operating System. Support GNU and the FSF by buying manuals and gear, joining the FSF as an associate member, or making a donation, either directly to the FSF or via Flattr.</p>

</div><!-- /mission-statement --><!-- end server/footer-text.html -->

<div id="footer"><div class="unprintable">

<p>Please send general FSF & GNU inquiries to <gnu@gnu.org>. There are also other ways to contact the FSF. Broken links and other corrections or suggestions can be sent to <webmasters@gnu.org>.</p>

<p><!-- TRANSLATORS: Ignore the original text in this paragraph, replace it with the translation of these two:

We work hard and do our best to provide accurate, good quality translations. However, we are not exempt from imperfection. Please send your comments and general suggestions in this regard to <web-translators@gnu.org>.</p>

<p>For information on coordinating and submitting translations of our web pages, see Translations README. -->

Please see the Translations README for information on coordinating and submitting translations of this article.</p></div>

<p>Copyright notice above.</p>

<!-- start of server/bottom-notes.html -->

<div id="bottom-notes" class="unprintable">

<p>Copyright Infringement Notification</p>

<div id="generic">

</div>

</div>

<!-- end of server/bottom-notes.html -->

<p class="unprintable">Updated:

<!-- timestamp start -->

\$Date: 2016/11/18 06:31:42 \$

<!-- timestamp end --></p>

</div>

</div>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">

<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">

<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">

<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">

<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">

<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">

<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">

<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">

<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">

<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">

<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">

<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">

<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">

<link rel="manifest" href="/favicons/manifest.json">

<link rel="shortcut icon" href="/favicons/favicon.ico">

<meta name="msapplication-TileColor" content="#603cba">

<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">

<meta name="msapplication-config" content="/favicons/browserconfig.xml">

```
<meta name="theme-color" content="#303284">
```

```
<title>Licenses</title>
```

```
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'  
rel='stylesheet' type='text/css'>
```

```
<link href="/css/min.bootstrap.css" rel="stylesheet">
```

```
<link href="/css/styles.css" rel="stylesheet">
```

```
<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See  
the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF  
licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file  
except in compliance with the License. You may obtain a copy of the License at  
http://www.apache.org/licenses/LICENSE-2.0 . Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR  
CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing  
permissions and limitations under the License. -->
```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a  
href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html ">Contact</a></li>
```

```

        </ul>
    </li>
</li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
</li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
<li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
</li>
</ul>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
    
<a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">
    
</a>
</div>
</div>

```

```

<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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<h1 id="distributions">Licensing of Distributions<a class="headerlink" href="#distributions" title="Permanent
link">&para;</a></h1>
<p>All software produced by The Apache Software Foundation or any of its

```

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<h3 id="1.1">Apache License, Version 1.1 (historic)¶</h3>

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<h3 id="1.0">Apache License, Version 1.0 (historic)¶</h3>

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<p>This is the original Apache License which applies only to older versions of Apache packages (such as version 1.2 of the Web server).</p>

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<p>The purpose of this agreement is to clearly define the

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The CCLA legally binds the corporation, so it must be signed by a person with authority to enter into legal contracts on behalf of the corporation.

The ICLA is not tied to any employer you may have, so it is recommended to use one's personal email address in the contact details, rather than an @work address.

Your Full name will be published unless you provide an alternative Public name. For example if your full name is Andrew Bernard Charles Dickens, but you wish to be known as Andrew Dickens, please enter the latter as your Public name.

The email address and other contact details are not published.

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Documents may be submitted by email and signed by hand or by electronic signature.

When submitting by email, please fill the form with a pdf viewer, then print, sign, scan all pages into a single pdf file, and attach the pdf file to an email to secretary@apache.org.

If possible, send the attachment from the email address in the document. Please send only one document per email.

If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,

```
gpg --armor --detach-sign icla.pdf
```

The above will create a file icla.pdf.asc. Send both the file (icla.pdf) and signature (icla.pdf.asc) as attachments in the same email to secretary@apache.org. Please send only one

document (file plus signature) per email. Please do not submit your public key to Apache.

Instead, please upload your public key to pgpkeys.mit.edu. </p>

<p>The files should be named

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ccla.pdf and ccla.pdf.asc for corporate agreements;

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<p>Please note that typing your name in the field at the bottom of the document is not signing, regardless of the font that is used.

Signing is either writing your signature by hand on a printed copy of the document,

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<p>From wikipedia.com: A signature is a handwritten (and often stylized) depiction of someone's name or nickname, on documents as a proof of identity and intent. </p>

<h1 id="crypto">Export restrictions¶</h1>

<p>For export restriction information, please consult our ASF Export Classifications page.</p>

<h1 id="trademarks">Trademark and Logo Usage¶</h1>

<p>For ASF trademark and logo usage information, please consult our ASF Trademark Use Policy page.</p>

<h1 id="questions">Questions?¶</h1>

<p>For answers to frequently asked licensing questions, please consult our

Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get Involved

Community FAQ

Memorials

</div>

<div class="col-sm-2">

```
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
```



```

</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

4.47 javassist 3.20.0

4.47.1 Available under license :

```

<HTML>
<HEAD>
<TITLE>Javassist License</TITLE>
<META http-equiv=Content-Type content="text/html; charset=iso-8859-1">
<META content="MSHTML 5.50.4916.2300" name=GENERATOR></HEAD>

<BODY text=#000000 vLink=#551a8b aLink=#ff0000 link=#0000ee bgColor=#ffffff>
<CENTER><B><FONT size=+2>MOZILLA PUBLIC LICENSE</FONT></B> <BR><B>Version
1.1</B>
<P>
<HR width="20% ">
</CENTER>
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4.49 jaxen 1.1.6

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4.50 jboss-logging 3.3.2.Final

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4.52 json-smart 2.3

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4.54 jul-to-slf4j 1.7.25

4.55 Log4J 1.2.8

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Refactored SqlBuilder class (SQL, AbstractSQL)

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4.61 mybatis-spring 1.3.0

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4.87 spring-plugin-core 1.2.0.RELEASE

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4.91 spring-security-config 5.0.4.RELEASE

4.92 spring-security-core 5.0.4.RELEASE

4.93 spring-security-jwt 1.0.9

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*/

```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
```

```

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

```

```

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

```

```

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

```

```

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}

```

4.109 UserAgentUtils 1.21

4.110 validation-api 2.0.1.Final

4.110.1 Available under license :

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4.112 xml-apis 1.4.01

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// Compiler: Visual C++
// Tested on: Visual C++ 5.0
//           Visual C++ 6.0
//
// Version:  See GetVersionC() or GetVersionI()
//
// Created:  xx/xxxx/1998
// Updated:  12/May/2001
//
// Author:   Davide Calabro'   davide_calabro@yahoo.com
//
// -----
// Description : Port of CButtonST to WTL (http://www.codeproject.com/buttonctrl/cbuttonst.asp)
// Author      : Serge Weinstock
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```
///-////////////////////////////////////  
/// Autor: David Elias Flores Escalante  
/// Company: TeleTracking SAC  
/// URL: http://teletrackingsac.dnsalias.net  
/// Date: 24/08/2008  
/// File name: dFont.h  
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:9127

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```
package org.apache.commons.codec;
```

```
/**
```

```
* Defines common decoding methods for byte array decoders.
```

```
*
```

```
* @author Apache Software Foundation
```

```
* @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
```

```
*/
```

```
public interface BinaryDecoder extends Decoder {
```

```
/**
```

```
* Decodes a byte array and returns the results as a byte array.
```

```
*
```

```
* @param pArray A byte array which has been encoded with the
```

```
* appropriate encoder
```

```
*
```

```
* @return a byte array that contains decoded content
```

```
*
```

```
* @throws DecoderException A decoder exception is thrown
```

```
* if a Decoder encounters a failure condition during
```

```
* the decode process.
```

```
*/
```

```
byte[] decode(byte[] pArray) throws DecoderException;
}
```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

- o This version is released under the Apache License 2.0 , please see LICENSE.txt. Previous versions were released under the Apache License 1.1.
- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team

## 12.8 apache-ant\_within-cglib 1.6.5

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```

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## 12.22 batik-css 1.7

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## 12.23 batik-ext 1.7

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\*/

```
package org.apache.batik.ext.awt.image.codec.util;
```

```
import java.awt.Point;
import java.awt.Rectangle;
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;
```

```

import java.util.Vector;
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

/**
 * A simple class implemented the <code>RenderedImage</code>
 * interface. Only the <code>getTile()</code> method needs to be
 * implemented by subclasses. The instance variables must also be
 * filled in properly.
 *
 * <p> Normally in JAI <code>PlanarImage</code> is used for this
 * purpose, but in the interest of modularity the
 * use of <code>PlanarImage</code> has been avoided.
 *
 * @version $Id: SimpleRenderedImage.java 498747 2007-01-22 18:56:19Z dvholten $
 */
public abstract class SimpleRenderedImage implements RenderedImage {

 /** The X coordinate of the image's upper-left pixel. */
 protected int minX;

 /** The Y coordinate of the image's upper-left pixel. */
 protected int minY;

 /** The image's width in pixels. */
 protected int width;

 /** The image's height in pixels. */
 protected int height;

 /** The width of a tile. */
 protected int tileWidth;

 /** The height of a tile. */
 protected int tileHeight;

 /** The X coordinate of the upper-left pixel of tile (0, 0). */
 protected int tileGridXOffset = 0;

 /** The Y coordinate of the upper-left pixel of tile (0, 0). */
 protected int tileGridYOffset = 0;

 /** The image's SampleModel. */
 protected SampleModel sampleModel = null;

 /** The image's ColorModel. */

```

```

protected ColorModel colorModel = null;

/** The image's sources, stored in a Vector. */
protected List sources = new ArrayList();

/** A Hashtable containing the image properties. */
protected Map properties = new HashMap();

public SimpleRenderedImage() {}

/** Returns the X coordinate of the leftmost column of the image. */
public int getMinX() {
 return minX;
}

/**
 * Returns the X coordinate of the column immediately to the
 * right of the rightmost column of the image. getMaxX() is
 * implemented in terms of getMinX() and getWidth() and so does
 * not need to be implemented by subclasses.
 */
public final int getMaxX() {
 return getMinX() + getWidth();
}

/** Returns the X coordinate of the uppermost row of the image. */
public int getMinY() {
 return minY;
}

/**
 * Returns the Y coordinate of the row immediately below the
 * bottom row of the image. getMaxY() is implemented in terms of
 * getMinY() and getHeight() and so does not need to be
 * implemented by subclasses.
 */
public final int getMaxY() {
 return getMinY() + getHeight();
}

/** Returns the width of the image. */
public int getWidth() {
 return width;
}

/** Returns the height of the image. */
public int getHeight() {
 return height;
}

```

```

}

/** Returns a Rectangle indicating the image bounds. */
public Rectangle getBounds() {
 return new Rectangle(getMinX(), getMinY(),
 getWidth(), getHeight());
}

/** Returns the width of a tile. */
public int getTileWidth() {
 return tileWidth;
}

/** Returns the height of a tile. */
public int getTileHeight() {
 return tileHeight;
}

/**
 * Returns the X coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridXOffset() {
 return tileGridXOffset;
}

/**
 * Returns the Y coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridYOffset() {
 return tileGridYOffset;
}

/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
 return XToTileX(getMinX());
}

/**
 * Returns the horizontal index of the rightmost column of tiles.
 * getMaxTileX() is implemented in terms of getMaxX()
 * and so does not need to be implemented by subclasses.
 */
public int getMaxTileX() {
 return XToTileX(getMaxX() - 1);
}

```



```

}

/**
 * Returns the number of tiles along the tile grid in the
 * horizontal direction. getNumXTiles() is implemented in terms
 * of getMinTileX() and getMaxTileX() and so does not need to be
 * implemented by subclasses.
 */
public int getNumXTiles() {
 return getMaxTileX() - getMinTileX() + 1;
}

/**
 * Returns the vertical index of the uppermost row of tiles. getMinTileY()
 * is implemented in terms of getMinY() and so does not need to be
 * implemented by subclasses.
 */
public int getMinTileY() {
 return YToTileY(getMinY());
}

/**
 * Returns the vertical index of the bottom row of tiles. getMaxTileY()
 * is implemented in terms of getMaxY() and so does not need to
 * be implemented by subclasses.
 */
public int getMaxTileY() {
 return YToTileY(getMaxY() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the vertical
 * direction. getNumYTiles() is implemented in terms
 * of getMinTileY() and getMaxTileY() and so does not need to be
 * implemented by subclasses.
 */
public int getNumYTiles() {
 return getMaxTileY() - getMinTileY() + 1;
}

/** Returns the SampleModel of the image. */
public SampleModel getSampleModel() {
 return sampleModel;
}

/** Returns the ColorModel of the image. */
public ColorModel getColorModel() {
 return colorModel;
}

```

```

}

/**
 * Gets a property from the property set of this image. If the
 * property name is not recognized, <code>null</code> will be returned.
 *
 * @param name the name of the property to get, as a
 * <code>String</code>.
 * @return a reference to the property
 * <code>Object</code>, or the value <code>null</code>
 */
public Object getProperty(String name) {
 name = name.toLowerCase();
 return properties.get(name);
}

/**
 * Returns a list of the properties recognized by this image. If
 * no properties are available, an empty String[] will be returned.
 *
 * @return an array of <code>String</code>s representing valid
 * property names.
 */
public String[] getPropertyNames() {
 String[] names = new String[properties.size()];
 // int index = 0;
 //
 // Enumeration e = properties.keys();
 // while (e.hasMoreElements()) {
 // String name = (String)e.nextElement();
 // names[index++] = name;
 // }
 properties.keySet().toArray(names);
 return names;
}

/**
 * Returns an array of <code>String</code>s recognized as names by
 * this property source that begin with the supplied prefix. If
 * no property names match, <code>null</code> will be returned.
 * The comparison is done in a case-independent manner.
 *
 * <p>The default implementation calls
 * <code>getPropertyNames()</code> and searches the list of names
 * for matches.
 *
 * @return an array of <code>String</code>s giving the valid
 * property names (can be null).

```

```

*/
public String[] getPropertyNames(String prefix) {
 String[] propertyNames = getPropertyNames();
 if (propertyNames == null) {
 return null;
 }

 prefix = prefix.toLowerCase();

 List names = new ArrayList();
 for (int i = 0; i < propertyNames.length; i++) {
 if (propertyNames[i].startsWith(prefix)) {
 names.add(propertyNames[i]);
 }
 }

 if (names.size() == 0) {
 return null;
 }

 // Copy the strings from the Vector over to a String array.
 String[] prefixNames = new String[names.size()];

 // int count = 0;
 // for (Iterator it = names.iterator(); it.hasNext();) { // todo xx.toArray()
 // prefixNames[count++] = (String)it.next();
 // }
 names.toArray(prefixNames);

 return prefixNames;
}

// Utility methods.

/**
 * Converts a pixel's X coordinate into a horizontal tile index
 * relative to a given tile grid layout specified by its X offset
 * and tile width.
 */
public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
 x -= tileGridXOffset;
 if (x < 0) {
 x += 1 - tileWidth; // Force round to -infinity
 }
 return x/tileWidth;
}

/**

```

```

* Converts a pixel's Y coordinate into a vertical tile index
* relative to a given tile grid layout specified by its Y offset
* and tile height.
*/
public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {
 y -= tileGridYOffset;
 if (y < 0) {
 y += 1 - tileHeight; // Force round to -infinity
 }
 return y/tileHeight;
}

/**
* Converts a pixel's X coordinate into a horizontal tile index.
* This is a convenience method. No attempt is made to detect
* out-of-range coordinates.
*
* @param x the X coordinate of a pixel.
* @return the X index of the tile containing the pixel.
*/
public int XToTileX(int x) {
 return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
* Converts a pixel's Y coordinate into a vertical tile index.
* This is a convenience method. No attempt is made to detect
* out-of-range coordinates.
*
* @param y the Y coordinate of a pixel.
* @return the Y index of the tile containing the pixel.
*/
public int YToTileY(int y) {
 return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
* Converts a horizontal tile index into the X coordinate of its
* upper left pixel relative to a given tile grid layout specified
* by its X offset and tile width.
*/
public static int tileXTToX(int tx, int tileGridXOffset, int tileWidth) {
 return tx*tileWidth + tileGridXOffset;
}

/**
* Converts a vertical tile index into the Y coordinate of
* its upper left pixel relative to a given tile grid layout

```

```

* specified by its Y offset and tile height.
*/
public static int tileYToY(int ty, int tileGridYOffset, int tileHeight) {
 return ty*tileHeight + tileGridYOffset;
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 *
 * @param tx the horizontal index of a tile.
 * @return the X coordinate of the tile's upper left pixel.
 */
public int tileXToX(int tx) {
 return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a vertical tile index into the Y coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 *
 * @param ty the vertical index of a tile.
 * @return the Y coordinate of the tile's upper left pixel.
 */
public int tileYToY(int ty) {
 return ty*tileHeight + tileGridYOffset;
}

public Vector getSources() {
 return null;
}

/**
 * Returns the entire image in a single Raster. For images with
 * multiple tiles this will require making a copy.
 *
 * <p>The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,
 * the returned value may be a reference to the image's internal
 * data. The returned Raster should be considered non-writable;
 * any attempt to alter its pixel data (such as by casting it to
 * WritableRaster or obtaining and modifying its DataBuffer) may
 * result in undefined behavior. The copyData method should be
 * used if the returned Raster is to be modified.
 *

```

```

* @return a Raster containing a copy of this image's data.
*/
public Raster getData() {
 Rectangle rect = new Rectangle(getMinX(), getMinY(),
 getWidth(), getHeight());
 return getData(rect);
}

/**
* Returns an arbitrary rectangular region of the RenderedImage
* in a Raster. The rectangle of interest will be clipped against
* the image bounds.
*
* <p>The returned Raster is semantically a copy. This means
* that updates to the source image will not be reflected in the
* returned Raster. For non-writable (immutable) source images,
* the returned value may be a reference to the image's internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @param bounds the region of the RenderedImage to be returned.
*/
public Raster getData(Rectangle bounds) {
 int startX = XToTileX(bounds.x);
 int startY = YToTileY(bounds.y);
 int endX = XToTileX(bounds.x + bounds.width - 1);
 int endY = YToTileY(bounds.y + bounds.height - 1);
 Raster tile;

 if ((startX == endX) && (startY == endY)) {
 tile = getTile(startX, startY);
 return tile.createChild(bounds.x, bounds.y,
 bounds.width, bounds.height,
 bounds.x, bounds.y, null);
 } else {
 // Create a WritableRaster of the desired size
 SampleModel sm =
 sampleModel.createCompatibleSampleModel(bounds.width,
 bounds.height);

 // Translate it
 WritableRaster dest =
 Raster.createWritableRaster(sm, bounds.getLocation());

 for (int j = startY; j <= endY; j++) {

```

```

 for (int i = startX; i <= endX; i++) {
 tile = getTile(i, j);
 Rectangle intersectRect =
 bounds.intersection(tile.getBounds());
 Raster liveRaster = tile.createChild(intersectRect.x,
 intersectRect.y,
 intersectRect.width,
 intersectRect.height,
 intersectRect.x,
 intersectRect.y,
 null);
 dest.setDataElements(0, 0, liveRaster);
 }
}
return dest;
}
}

/**
 * Copies an arbitrary rectangular region of the RenderedImage
 * into a caller-supplied WritableRaster. The region to be
 * computed is determined by clipping the bounds of the supplied
 * WritableRaster against the bounds of the image. The supplied
 * WritableRaster must have a SampleModel that is compatible with
 * that of the image.
 *
 * <p> If the raster argument is null, the entire image will
 * be copied into a newly-created WritableRaster with a SampleModel
 * that is compatible with that of the image.
 *
 * @param dest a WritableRaster to hold the returned portion of
 * the image.
 * @return a reference to the supplied WritableRaster, or to a
 * new WritableRaster if the supplied one was null.
 */
public WritableRaster copyData(WritableRaster dest) {
 Rectangle bounds;
 Raster tile;

 if (dest == null) {
 bounds = getBounds();
 Point p = new Point(minX, minY);
 /* A SampleModel to hold the entire image. */
 SampleModel sm = sampleModel.createCompatibleSampleModel(
 width, height);
 dest = Raster.createWritableRaster(sm, p);
 } else {
 bounds = dest.getBounds();

```

```

 }

 int startX = XToTileX(bounds.x);
 int startY = YToTileY(bounds.y);
 int endX = XToTileX(bounds.x + bounds.width - 1);
 int endY = YToTileY(bounds.y + bounds.height - 1);

 for (int j = startY; j <= endY; j++) {
 for (int i = startX; i <= endX; i++) {
 tile = getTile(i, j);
 Rectangle intersectRect =
 bounds.intersection(tile.getBounds());
 Raster liveRaster = tile.createChild(intersectRect.x,
 intersectRect.y,
 intersectRect.width,
 intersectRect.height,
 intersectRect.x,
 intersectRect.y,
 null);

 /*
 * WritableRaster.setDataElements takes into account of
 * inRaster's minX and minY and add these to x and y. Since
 * liveRaster has the origin at the correct location, the
 * following call should not again give these coordinates in
 * places of x and y.
 */
 dest.setDataElements(0, 0, liveRaster);
 }
 }
 return dest;
}
}
/*

```

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```
*/

package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.OutputStream;

/**
 * A partial implementation of the ImageEncoder interface useful for
 * subclassing.
 *
 * <p> This class is not a committed part of the JAI API. It may
 * be removed or changed in future releases of JAI.
 *
 * @version $Id: ImageEncoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
 */
public abstract class ImageEncoderImpl implements ImageEncoder {

 /** The OutputStream associated with this ImageEncoder. */
 protected OutputStream output;

 /** The ImageEncodeParam object associated with this ImageEncoder. */
 protected ImageEncodeParam param;

 /**
 * Constructs an ImageEncoderImpl with a given OutputStream
 * and ImageEncoderParam instance.
 */
 public ImageEncoderImpl(OutputStream output,
 ImageEncodeParam param) {
 this.output = output;
 this.param = param;
 }

 /**
 * Returns the current parameters as an instance of the
 * ImageEncodeParam interface. Concrete implementations of this
 * interface will return corresponding concrete implementations of
 * the ImageEncodeParam interface. For example, a JPEGImageEncoder
 * will return an instance of JPEGEncodeParam.
 */
 public ImageEncodeParam getParam() {
 return param;
 }
}
```

```

}

/**
 * Sets the current parameters to an instance of the
 * ImageEncodeParam interface. Concrete implementations
 * of ImageEncoder may throw a RuntimeException if the
 * param argument is not an instance of the appropriate
 * subclass or subinterface. For example, a JPEGImageEncoder
 * will expect param to be an instance of JPEGEncodeParam.
 */
public void setParam(ImageEncodeParam param) {
 this.param = param;
}

/** Returns the OutputStream associated with this ImageEncoder. */
public OutputStream getOutputStream() {
 return output;
}

/**
 * Encodes a Raster with a given ColorModel and writes the output
 * to the OutputStream associated with this ImageEncoder.
 */
public void encode(Raster ras, ColorModel cm) throws IOException {
 RenderedImage im = new SingleTileRenderedImage(ras, cm);
 encode(im);
}

/**
 * Encodes a RenderedImage and writes the output to the
 * OutputStream associated with this ImageEncoder.
 */
public abstract void encode(RenderedImage im) throws IOException;
}
/*

```

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```
*/
package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.InputStream;

/**
 * A partial implementation of the ImageDecoder interface
 * useful for subclassing.
 *
 * @version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
 */
public abstract class ImageDecoderImpl implements ImageDecoder {

 /**
 * The SeekableStream associated with this
 * ImageEncoder.
 */
 protected SeekableStream input;

 /**
 * The ImageDecodeParam object associated with this
 * ImageEncoder.
 */
 protected ImageDecodeParam param;

 /**
 * Constructs an ImageDecoderImpl with a given
 * SeekableStream and ImageDecodeParam
 * instance.
 */
 public ImageDecoderImpl(SeekableStream input,
 ImageDecodeParam param) {
 this.input = input;
 this.param = param;
 }

 /**
 * Constructs an ImageDecoderImpl with a given
 * InputStream and ImageDecodeParam
 * instance. The input parameter will be used to
 * construct a ForwardSeekableStream; if the ability
 * to seek backwards is required, the caller should construct
```

```

* an instance of SeekableStream and
* make use of the other constructor.
*/
public ImageDecoderImpl(InputStream input,
 ImageDecodeParam param) {
 this.input = new ForwardSeekableStream(input);
 this.param = param;
}

/**
* Returns the current parameters as an instance of the
* ImageDecodeParam interface. Concrete
* implementations of this interface will return corresponding
* concrete implementations of the ImageDecodeParam
* interface. For example, a JPEGImageDecoder will
* return an instance of JPEGDecodeParam.
*/
public ImageDecodeParam getParam() {
 return param;
}

/**
* Sets the current parameters to an instance of the
* ImageDecodeParam interface. Concrete
* implementations of ImageDecoder may throw a
* RuntimeException if the param
* argument is not an instance of the appropriate subclass or
* subinterface. For example, a JPEGImageDecoder
* will expect param to be an instance of
* JPEGDecodeParam.
*/
public void setParam(ImageDecodeParam param) {
 this.param = param;
}

/**
* Returns the SeekableStream associated with
* this ImageDecoder.
*/
public SeekableStream getInputStream() {
 return input;
}

/**
* Returns the number of pages present in the current stream.
* By default, the return value is 1. Subclasses that deal with
* multi-page formats should override this method.
*/

```

```

public int getNumPages() throws IOException {
 return 1;
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public Raster decodeAsRaster() throws IOException {
 return decodeAsRaster(0);
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder.
 * The given page of a multi-page image is decoded. If
 * the page does not exist, an IOException will be thrown.
 * Page numbering begins at zero.
 *
 * @param page The page to be decoded.
 */
public Raster decodeAsRaster(int page) throws IOException {
 RenderedImage im = decodeAsRenderedImage(page);
 return im.getData();
}

/**
 * Returns a RenderedImage that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public RenderedImage decodeAsRenderedImage() throws IOException {
 return decodeAsRenderedImage(0);
}

/**
 * Returns a RenderedImage that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder.
 * The given page of a multi-page image is decoded. If
 * the page does not exist, an IOException will be thrown.
 * Page numbering begins at zero.
 *
 * @param page The page to be decoded.

```

```
*/
public abstract RenderedImage decodeAsRenderedImage(int page)
 throws IOException;
}
```

## 12.24 batik-util 1.7

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## 12.32 cal10n-api 0.7.4

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 commons/collections/src/java/org/apache/commons/collections/TransformIterator.java,v 1.7 2002/10/12 22:15:18
 scolebourne Exp $
 * $Revision: 1.7 $
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## 12.52 commons-fileupload 1.3.1

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## 12.88 jarjar\_within-cglib 1.0rc8

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/\* JUG Java Uuid Generator

\*

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# 12.105 junit\_within-cglib 3.8.1

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## 12.106 Log4J 1.2.8

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Version 2.1, February 1999

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Daniel Savarese <[dfs at savarese.org](mailto:dfs@savarese.org)> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

Jon Stevens <[jon at collab.net](mailto:jon@collab.net)> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

Takashi Okamoto <[tokamoto at rd.nttdata.co.jp](mailto:tokamoto@rd.nttdata.co.jp)> has contributed a unicode character class fix and an initial posix character class implementation.

Mark Murphy <[markm at tyrell.com](mailto:markm@tyrell.com)> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIE and escaping of \$.

Michael Davey <[michael.davey at codera.org](mailto:michael.davey@codera.org)> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald at ontopia.net](mailto:harald@ontopia.net)> updated MatchActionProcessor.processMatches() to accommodate character encodings.

# 12.119 oscore 2.2.4

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## 12.123 slf4j-ext-1.7.5 1.7.5

## 12.124 slf4j-log4j12 1.7.12

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```
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## 12.137 wsdl4j 1.5.1

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# 12.138 wstx-asl-3.2.6.jar 3.2.6

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 description='Used to generate an OSGI compliant conf/MANIFEST.MF'>
<jar name='bnd.jar' />
</module>
<module name='Bouncy castle'
 licenseType='bouncycastle'
 version='1.17'
 projectHome='http://www.bouncycastle.org'
 description='Encryption algorithms. Used by ENCRYPT and AUTH (runtime)'>
<jar name='bouncycastle.jar' />
</module>
<module name='Beanshell'
 licenseType='lgpl (dual license, but LGPL may be chosen)'
 version='2.0b5'
 projectHome='http://www.beanshell.org'
 description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
<jar name='bsh.jar' />
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<module name='byteman'
 licenseType='LGPL 2.1'
 version='2.1.0'
 projectHome='http://www.jboss.org/byteman'>
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 projectHome='http://www.jboss.org/byteman'>
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</module>
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 projectHome='http://www.jboss.org/byteman'>
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 version='2.5'
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 description='Annotations of JCIP'>
 <jar name='none (part of src tree: org.jgroups.annotations)' />
</module>
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 version='1.2.14'
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 description='Java logging framework (runtime)'>
 <jar name='log4j.jar' />
</module>
<module name='serializer'
 licenseType='apache-2.0'
 version='1.6.5'
 projectHome='http://ant.apache.org/'
 description='ANT (compile time), needed for generation of test reports'>
 <jar name='serializer.jar' />
</module>
<module name='testng'
 licenseType='apache-2.0'
 version='6.8'
 projectHome='http://www.testng.org'
 description='Used for unit testing'>
 <jar name='testng-6.8.jar' />
</module>
<module name='xalan'
 licenseType='apache-2.0'
 version='2.4.D1'
 projectHome='http://xml.apache.org/xalan-j/'
 description='Xalan-Java is an XSLT processor for transforming XML documents.
 Used to generate HTML test reports from XML (testing time)'>
 <jar name='xalan.jar' />
</module>
</thirdparty-licenses>

```

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[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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```
/* Simple JavaScript Inheritance
```

```
 * By John Resig http://ejohn.org/
```

```
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```

```
 */
```

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## 13.6 Code Project - A little tool to show some system informations (sysinfo) 2007-05-12

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```
package org.apache.commons.codec;
```

```
/**
```

```
* Defines common decoding methods for byte array decoders.
```

```
*
```

```
* @author Apache Software Foundation
```

```
* @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
```

```
*/
```

```
public interface BinaryDecoder extends Decoder {
```

```
 /**
```

```
 * Decodes a byte array and returns the results as a byte array.
```

```
 *
```

```
 * @param pArray A byte array which has been encoded with the
```

```
 * appropriate encoder
```

```
 *
```

```
 * @return a byte array that contains decoded content
```

```
 *
```

```
 * @throws DecoderException A decoder exception is thrown
```

```
 * if a Decoder encounters a failure condition during
```

```
 * the decode process.
```

```
 */
```

```
 byte[] decode(byte[] pArray) throws DecoderException;
```

```
}
```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s.

Issue: 27813. Thanks to Alex Karasulu.

- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail

Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are

not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg

Kalnichevski.

- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
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- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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 */
```

```
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```

```
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 * Defines common decoding methods for byte array decoders.
 *
 * @author Apache Software Foundation
 * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
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```

```
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```

```
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 * Decodes a byte array and returns the results as a byte array.
 *
 * @param pArray A byte array which has been encoded with the
 * appropriate encoder
 *
 * @return a byte array that contains decoded content
 *
 * @throws DecoderException A decoder exception is thrown
 * if a Decoder encounters a failure condition during
 * the decode process.
 */
```

```
 byte[] decode(byte[] pArray) throws DecoderException;
}
```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

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- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

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```
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 * $Header: /home/cvs/jakarta-commons/httpclient/LICENSE.txt,v 1.4 2003/01/27 15:28:26 jsdever Exp $
 * $Revision: 1.4 $
 * $Date: 2003/01/27 15:28:26 $
 *
 * =====
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## 14.14 bootstrap.js 3.0.0

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```

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*
*/
```

```
/*
```

```
* This package is based on the work done by Keiron Liddle, Aftex Software
* <keiron@aftexsw.com> to whom the Ant project is very grateful for his
* great code.
*/
```

```
package org.bouncycastle.apache.bzip2;
```

```
/**
```

```
* A simple class the hold and calculate the CRC for sanity checking
* of the data.
*
* @author Keiron Liddle
*/
```

```
class CRC {
 public static int crc32Table[] = {
 0x00000000, 0x04c11db7, 0x09823b6e, 0x0d4326d9,
 0x130476dc, 0x17c56b6b, 0x1a864db2, 0x1e475005,
 0x2608edb8, 0x22c9f00f, 0x2f8ad6d6, 0x2b4bcb61,
 0x350c9b64, 0x31cd86d3, 0x3c8ea00a, 0x384fbd8d,
 0x4c11db70, 0x48d0c6c7, 0x4593e01e, 0x4152fda9,
 0x5f15adac, 0x5bd4b01b, 0x569796c2, 0x52568b75,
 0x6a1936c8, 0x6ed82b7f, 0x639b0da6, 0x675a1011,
 0x791d4014, 0x7ddc5da3, 0x709f7b7a, 0x745e66cd,
 0x9823b6e0, 0x9ce2ab57, 0x91a18d8e, 0x95609039,
 0x8b27c03c, 0x8fe6dd8b, 0x82a5fb52, 0x8664e6e5,
 0xbe2b5b58, 0xbaea46ef, 0xb7a96036, 0xb3687d81,
 0xad2f2d84, 0xa9ee3033, 0xa4ad16ea, 0xa06c0b5d,
 0xd4326d90, 0xd0f37027, 0xddb056fe, 0xd9714b49,
 0xc7361b4c, 0xc3f706fb, 0xceb42022, 0xca753d95,
 0xf23a8028, 0xf6fb9d9f, 0xfbb8bb46, 0xff79a6f1,
 0xe13ef6f4, 0xe5ffeb43, 0xe8bccd9a, 0xec7dd02d,
 0x34876077, 0x30476dc0, 0x3d044b19, 0x39c556ae,
 0x278206ab, 0x23431b1c, 0x2e003dc5, 0x2ac12072,
```

0x128e9dcf, 0x164f8078, 0x1b0ca6a1, 0x1fcd9bb16,  
0x018aeb13, 0x054bf6a4, 0x0808d07d, 0x0cc9cdca,  
0x7897ab07, 0x7c56b6b0, 0x71159069, 0x75d48dde,  
0x6b93dddb, 0x6f52c06c, 0x6211e6b5, 0x66d0fb02,  
0x5e9f46bf, 0x5a5e5b08, 0x571d7dd1, 0x53dc6066,  
0x4d9b3063, 0x495a2dd4, 0x44190b0d, 0x40d816ba,  
0xaca5c697, 0xa864db20, 0xa527fdf9, 0xa1e6e04e,  
0xbfa1b04b, 0xbb60adfc, 0xb6238b25, 0xb2e29692,  
0x8aad2b2f, 0x8e6c3698, 0x832f1041, 0x87ee0df6,  
0x99a95df3, 0x9d684044, 0x902b669d, 0x94ea7b2a,  
0xe0b41de7, 0xe4750050, 0xe9362689, 0xedf73b3e,  
0xf3b06b3b, 0xf771768c, 0xfa325055, 0xfef34de2,  
0xc6bcf05f, 0xc27dede8, 0xcf3ecb31, 0xcbffd686,  
0xd5b88683, 0xd1799b34, 0xdc3abded, 0xd8fba05a,  
0x690ce0ee, 0x6dcd9d59, 0x608edb80, 0x644fc637,  
0x7a089632, 0x7ec98b85, 0x738aad5c, 0x774bb0eb,  
0x4f040d56, 0x4bc510e1, 0x46863638, 0x42472b8f,  
0x5c007b8a, 0x58c1663d, 0x558240e4, 0x51435d53,  
0x251d3b9e, 0x21dc2629, 0x2c9f00f0, 0x285e1d47,  
0x36194d42, 0x32d850f5, 0x3f9b762c, 0x3b5a6b9b,  
0x0315d626, 0x07d4cb91, 0x0a97ed48, 0x0e56f0ff,  
0x1011a0fa, 0x14d0bd4d, 0x19939b94, 0x1d528623,  
0xf12f560e, 0xf5ee4bb9, 0xf8ad6d60, 0xfc6c70d7,  
0xe22b20d2, 0xe6ea3d65, 0xeba91bbc, 0xef68060b,  
0xd727bbb6, 0xd3e6a601, 0xdea580d8, 0xda649d6f,  
0xc423cd6a, 0xc0e2d0dd, 0xcda1f604, 0xc960ebb3,  
0xbd3e8d7e, 0xb9ff90c9, 0xb4bcb610, 0xb07daba7,  
0xae3afba2, 0xaafbe615, 0xa7b8c0cc, 0xa379dd7b,  
0x9b3660c6, 0x9ff77d71, 0x92b45ba8, 0x9675461f,  
0x8832161a, 0x8cf30bad, 0x81b02d74, 0x857130c3,  
0x5d8a9099, 0x594b8d2e, 0x5408abf7, 0x50c9b640,  
0x4e8ee645, 0x4a4fffb2, 0x470cdd2b, 0x43cdc09c,  
0x7b827d21, 0x7f436096, 0x7200464f, 0x76c15bf8,  
0x68860bfd, 0x6c47164a, 0x61043093, 0x65c52d24,  
0x119b4be9, 0x155a565e, 0x18197087, 0x1cd86d30,  
0x029f3d35, 0x065e2082, 0x0b1d065b, 0x0fdc1bec,  
0x3793a651, 0x3352bbe6, 0x3e119d3f, 0x3ad08088,  
0x2497d08d, 0x2056cd3a, 0x2d15ebe3, 0x29d4f654,  
0xc5a92679, 0xc1683bce, 0xcc2b1d17, 0xc8ea00a0,  
0xd6ad50a5, 0xd26c4d12, 0xdf2f6bcb, 0xdbee767c,  
0xe3a1cbc1, 0xe760d676, 0xea23f0af, 0xee2ed18,  
0xf0a5bd1d, 0xf464a0aa, 0xf9278673, 0xfde69bc4,  
0x89b8fd09, 0x8d79e0be, 0x803ac667, 0x84fbd0,  
0x9abc8bd5, 0x9e7d9662, 0x933eb0bb, 0x97ffad0c,  
0xafb010b1, 0xab710d06, 0xa6322bdf, 0xa2f33668,  
0xbcb4666d, 0xb8757bda, 0xb5365d03, 0xb1f740b4  
};



```

public CRC() {
 initialiseCRC();
}

void initialiseCRC() {
 globalCrc = 0xffffffff;
}

int getFinalCRC() {
 return ~globalCrc;
}

int getGlobalCRC() {
 return globalCrc;
}

void setGlobalCRC(int newCrc) {
 globalCrc = newCrc;
}

void updateCRC(int inCh) {
 int temp = (globalCrc >> 24) ^ inCh;
 if (temp < 0) {
 temp = 256 + temp;
 }
 globalCrc = (globalCrc << 8) ^ CRC.crc32Table[temp];
}

int globalCrc;
}
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Servlet Specification 2.5 API (<http://jetty.mortbay.org>) `org.mortbay.jetty:servlet-api-2.5:jar:6.1.5`

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### jstates-utils 0.5

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XSLT Stylesheet for LoalCalc

Author: Philipp Meier <meier@o-matic.de>

Version: \$Revision: 1.1 \$

-->

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This XSLT stylesheet renders any xml to a fancy html view.

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Version: \$Revision: 1.1 \$

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2007-03-30

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## 14.62 xercesImpl 2.9.1

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webmaster

(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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Code sample



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zoom-in.png viewmag+.png  
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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

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To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

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The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

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- document-open.png
- document-open.png
- document-print.png
- edit-find.png
- go-next.png
- go-previous.png
- icon-general.png (originally preferences-desktop.png)
- icon-language.png (originally preferences-desktop-locale.png)
- icon-network.png (originally applications-internet.png)
- icon-security.png (originally dialog-warning.png)

icon-stylesheet.png (originally applications-graphics.png)  
media-playback-pause.png  
media-playback-start.png  
process-stop.png  
redo.png (modified version of edit-redo.png)  
system-search.png  
text-html.png  
undo.png (modified version of edit-undo.png)  
utilities-system-monitor.png  
view-refresh.png  
window-new.png

The following files are from the Pasodoble Icon Theme  
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File Original filename

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zoom-in.png viewmag+.png  
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## 15.69 hamcrest-core\_test 1.1

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\* Merlin Hughes, Michael Shoffner, Derek Hamner

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com.fasterxml.jackson.core.JsonFactory

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## 15.102 jgroups 2.2.9

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Version 2.1, February 1999

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## 15.115 jug 1.1.2

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Version 2.1, February 1999

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

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```
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```

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```

```
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```

# 15.116 junit 4.10

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JUnit

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## 15.117 junit\_within-cglib 3.8.1

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## 15.118 Kettle - Pentaho - Data Integration

### 4.2.0

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Version 2.1, February 1999

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# 15.122 metrics-core 3.0.2

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# 15.125 mongo-java-driver 2.10.1

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## 15.126 morphia 0.104



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Mark Murphy <[markm@tyrell.com](mailto:markm@tyrell.com)> has contributed performance  
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\uULIE and escaping of \$.

Michael Davey <[michael.davey@codera.org](mailto:michael.davey@codera.org)> fixed some documentation and  
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald@ontopia.net](mailto:harald@ontopia.net)> updated  
MatchActionProcessor.processMatches() to accommodate character encodings.

# 15.139 oscache-wbx 2.4.1-wbx

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File: AbstractConcurrentReadCache

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This class is a modified version of ConcurrentReaderHashMap, which was written by Doug Lea (<http://gee.cs.oswego.edu/dl/>). The modifications were done by Pyxis Technologies. This is a base class for the OSCache module of the openSymphony project ([www.opensymphony.com](http://www.opensymphony.com)).

History:

| Date      | Who                      | What            |
|-----------|--------------------------|-----------------|
| 28oct1999 | dl                       | Created         |
| 14dec1999 | dl                       | jmm snapshot    |
| 19apr2000 | dl                       | use barrierLock |
| 12jan2001 | dl                       | public release  |
| Oct2001   | abergevin@pyxis-tech.com |                 |

Integrated persistence and outer algorithm support

\*/

## 15.140 owasp-java-html-sanitizer r239

## 15.141 owasp-java-html-sanitizer 1.1

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## 15.150 smiley-http-proxy-servlet 1.4

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## 15.162 spring-security-acl 3.1.3.RELEASE

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# 15.163 spring-security-config 3.1.3.RELEASE

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# 15.165 spring-security-taglibs 3.1.3.RELEASE

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The Netty Project

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## 15.182 tomcat-embed-core 7.0.20

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# 15.183 tomcat-embed-logging-juli 7.0.20

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<http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113/java-binding.html>

The original versions are tagged 'DOM\_LEVEL\_2'

The specification of DOM Level 2's various parts is at:

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Core-20001113/>

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>

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<http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/>

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>

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## 15.188 wstx-asl 3.2.1

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sep

# 15.190 XFire 1.2.6

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## 16.3 Apache Struts 1.2.9

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Apache Struts

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## 16.4 Apache Tomcat 5.5.9

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PGM

CRTCMOD MODULE(MOD\_JK/MOD\_JK) +  
SRCSTMF('/home/apache/jk/native/apache-2.0/mod\_jk.c') +

```

DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('mod_jk.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp_common.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp12_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +

```

```

OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' /QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
DEFINE('AS400' HAVE_JNI HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp13_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' /QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
DEFINE('AS400' HAVE_JNI HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' /QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
DEFINE('AS400' HAVE_JNI HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' /QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +

```

```

SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_JNI_WOR) +
SRCSTMF('/home/apache/jk/native/common/jk_jni_worker.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' 'OS400_JVM_12' +
 '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' +
 '_REENTRANT') +
TEXT('jk_jni_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +

```



```

SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common'/QIBM/ProdData/HTTP/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF(/home/apache/jk/native/common/jk_map.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common'/QIBM/ProdData/HTTP/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF(/home/apache/jk/native/common/jk_md5.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common'/QIBM/ProdData/HTTP/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
SRCSTMF(/home/apache/jk/native/common/jk_msg_buff.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +

```

```
INCDIR(/home/apache/jk/native/common' /QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_POOL) +
SRCSTMF(/home/apache/jk/native/common/jk_pool.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_pool.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common' /QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_SOCKETBUF) +
SRCSTMF(/home/apache/jk/native/common/jk_socketbuf.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_socketbuf.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common' /QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
SRCSTMF(/home/apache/jk/native/common/jk_uri_worker_map.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_uri_worker_map.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common' /QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_UTIL) +
SRCSTMF(/home/apache/jk/native/common/jk_util.c) +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
 'USE_APACHE_MD5' '_REENTRANT') +
```

```
TEXT('jk_util.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common'/QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_WORKER) +
SRCSTMF(/home/apache/jk/native/common/jk_worker.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common'/QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_STATUS) +
SRCSTMF(/home/apache/jk/native/common/jk_status.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_status.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR(/home/apache/jk/native/common'/QIBM/ProdData/HTTP/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_SHM) +
SRCSTMF(/home/apache/jk/native/common/jk_shm.c') +
DEFINE('AS400' 'HAVE_JNI' 'HAVE_APR' '_XOPEN_SOURCE=520' +
'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_shm.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
```

```

TERASPACE(*YES *TSIFC) +
STGMIDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTP/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
 MODULE(MOD_JK/MOD_JK +
 MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
 MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
 MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
 MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
 MOD_JK/JK_JNI_WOR MOD_JK/JK_LB_WORK +
 MOD_JK/JK_MAP MOD_JK/JK_MD5 +
 MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
 MOD_JK/JK_SOCKETBUF MOD_JK/JK_URI_W_M +
 MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
 MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
 EXPORT(*SRCFILE) +
 BNDDIR() +
 SRCFILE(MOD_JK/QSRVSR) +
 SRCMBR(MOD_JK) +
 DETAIL(*BASIC) +
 STGMIDL(*INHERIT) +
 ACTGRP(*CALLER) +
 BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
 QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
 TEXT('Apache mod_jk tomcat connector module')

ENDPGM
Microsoft Developer Studio Generated NMAKE File, Based on mod_jk.dsp
!IF "$(CFG)" == ""
CFG=apache - Win32 Release
!MESSAGE No configuration specified. Defaulting to apache - Win32 Release.
!ENDIF

!IF "$(CFG)" != "apache - Win32 Release"
!MESSAGE Invalid configuration "$(CFG)" specified.
!MESSAGE You can specify a configuration when running NMAKE
!MESSAGE by defining the macro CFG on the command line. For example:
!MESSAGE
!MESSAGE NMAKE /f "Makefile.vc" CFG="apache - Win32 Release"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "apache - Win32 Release" (based on "Win32 (x86) Dynamic-Link Library")
!MESSAGE
!ERROR An invalid configuration is specified.
!ENDIF

```

```
!IF "$(OS)" == "Windows_NT"
NULL=
!ELSE
NULL=nul
!ENDIF
```

```
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
OUTDIR=.\\Release
INTDIR=.\\Release
Begin Custom Macros
OutDir=.\\Release
End Custom Macros
```

```
ALL : "$(OUTDIR)\\mod_jk.so"
```

```
CLEAN :
```

```
-@erase "$(INTDIR)\\jk_ajp12_worker.obj"
-@erase "$(INTDIR)\\jk_ajp13.obj"
-@erase "$(INTDIR)\\jk_ajp13_worker.obj"
-@erase "$(INTDIR)\\jk_ajp14.obj"
-@erase "$(INTDIR)\\jk_ajp14_worker.obj"
-@erase "$(INTDIR)\\jk_ajp_common.obj"
-@erase "$(INTDIR)\\jk_connect.obj"
-@erase "$(INTDIR)\\jk_context.obj"
-@erase "$(INTDIR)\\jk_jni_worker.obj"
-@erase "$(INTDIR)\\jk_lb_worker.obj"
-@erase "$(INTDIR)\\jk_map.obj"
-@erase "$(INTDIR)\\jk_md5.obj"
-@erase "$(INTDIR)\\jk_msg_buff.obj"
-@erase "$(INTDIR)\\jk_pool.obj"
-@erase "$(INTDIR)\\jk_shm.obj"
-@erase "$(INTDIR)\\jk_sockbuf.obj"
-@erase "$(INTDIR)\\jk_status.obj"
-@erase "$(INTDIR)\\jk_uri_worker_map.obj"
-@erase "$(INTDIR)\\jk_util.obj"
-@erase "$(INTDIR)\\jk_worker.obj"
-@erase "$(INTDIR)\\mod_jk.obj"
-@erase "$(INTDIR)\\mod_jk_src.idb"
-@erase "$(INTDIR)\\mod_jk_src.pdb"
-@erase "$(OUTDIR)\\mod_jk.exp"
-@erase "$(OUTDIR)\\mod_jk.lib"
-@erase "$(OUTDIR)\\mod_jk.pdb"
-@erase "$(OUTDIR)\\mod_jk.so"
```

```
"$(OUTDIR)" :
```

```

if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\mod_jk.bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib libapr.lib libaprutil.lib kernel32.lib user32.lib advapi32.lib wsock32.lib /nologo
/base:"0x6A6B0000" /subsystem:windows /dll /incremental:no /pdb:"$(OUTDIR)\mod_jk.pdb" /debug
/machine:I386 /out:"$(OUTDIR)\mod_jk.so" /implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib"
/opt:ref
LINK32_OBJS= \
"$(INTDIR)\jk_ajp12_worker.obj" \
"$(INTDIR)\jk_ajp13.obj" \
"$(INTDIR)\jk_ajp13_worker.obj" \
"$(INTDIR)\jk_ajp14.obj" \
"$(INTDIR)\jk_ajp14_worker.obj" \
"$(INTDIR)\jk_ajp_common.obj" \
"$(INTDIR)\jk_connect.obj" \
"$(INTDIR)\jk_context.obj" \
"$(INTDIR)\jk_jni_worker.obj" \
"$(INTDIR)\jk_lb_worker.obj" \
"$(INTDIR)\jk_map.obj" \
"$(INTDIR)\jk_md5.obj" \
"$(INTDIR)\jk_msg_buff.obj" \
"$(INTDIR)\jk_pool.obj" \
"$(INTDIR)\jk_shm.obj" \
"$(INTDIR)\jk_sockbuf.obj" \
"$(INTDIR)\jk_status.obj" \
"$(INTDIR)\jk_uri_worker_map.obj" \
"$(INTDIR)\jk_util.obj" \
"$(INTDIR)\jk_worker.obj" \
"$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\mod_jk.so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
$(LINK32) @<<
$(LINK32_FLAGS) $(LINK32_OBJS)
<<

CPP_PROJ=/nologo /MD /W3 /Zi /O2 /I "..\common" /I "$(JAVA_HOME)\include" /I
"$(JAVA_HOME)\include\win32" /I "$(APACHE2_HOME)\include" /D "NDEBUG" /D "WIN32" /D
"_WINDOWS" /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
$(CPP) @<<
$(CPP_PROJ) $<
<<

```

```
.cpp{$(INTDIR)}.obj::
$(CPP) @<<
$(CPP_PROJ) $<
<<
```

```
.cxx{$(INTDIR)}.obj::
$(CPP) @<<
$(CPP_PROJ) $<
<<
```

```
.c{$(INTDIR)}.sbr::
$(CPP) @<<
$(CPP_PROJ) $<
<<
```

```
.cpp{$(INTDIR)}.sbr::
$(CPP) @<<
$(CPP_PROJ) $<
<<
```

```
.cxx{$(INTDIR)}.sbr::
$(CPP) @<<
$(CPP_PROJ) $<
<<
```

```
MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
```

```
!IF "$(NO_EXTERNAL_DEPS)" != "1"
!IF EXISTS("mod_jk.dep")
!INCLUDE "mod_jk.dep"
!ELSE
!MESSAGE Warning: cannot find "mod_jk.dep"
!ENDIF
!ENDIF
```

```
!IF "$(CFG)" == "apache - Win32 Release"
SOURCE=..\common\jk_ajp12_worker.c
```

```
"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=..\common\jk_ajp13.c
```

```
"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)
```

SOURCE=..\common\jk\_ajp13\_worker.c

"\$(INTDIR)\jk\_ajp13\_worker.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_ajp14.c

"\$(INTDIR)\jk\_ajp14.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_ajp14\_worker.c

"\$(INTDIR)\jk\_ajp14\_worker.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_ajp\_common.c

"\$(INTDIR)\jk\_ajp\_common.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_connect.c

"\$(INTDIR)\jk\_connect.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_context.c

"\$(INTDIR)\jk\_context.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_jni\_worker.c

"\$(INTDIR)\jk\_jni\_worker.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_lb\_worker.c

"\$(INTDIR)\jk\_lb\_worker.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)



SOURCE=..\common\jk\_map.c

"\$(INTDIR)\jk\_map.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_md5.c

"\$(INTDIR)\jk\_md5.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_msg\_buff.c

"\$(INTDIR)\jk\_msg\_buff.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_pool.c

"\$(INTDIR)\jk\_pool.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_shm.c

"\$(INTDIR)\jk\_shm.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_sockbuf.c

"\$(INTDIR)\jk\_sockbuf.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_status.c

"\$(INTDIR)\jk\_status.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

SOURCE=..\common\jk\_uri\_worker\_map.c

"\$(INTDIR)\jk\_uri\_worker\_map.obj" : \$(SOURCE) "\$(INTDIR)"  
\$(CPP) \$(CPP\_PROJ) \$(SOURCE)

```
SOURCE=..\common\jk_util.c
```

```
"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=..\common\jk_worker.c
```

```
"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
$(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=.\mod_jk.c
```

```
"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
```

```
!ENDIF
```

```
#
```

```
Makefile for mod_jk (uses the build system of Apache2 - gnu make)
```

```
created by Guenter Knauf <eflash@gmx.net>
```

```
#
```

```
#ifeq ($(strip $(JAVA_HOME)),)
```

```
#@echo You must set the JAVA_HOME environment var pointing to the NetWare Java SDK!
```

```
#endif
```

```
#
```

```
Declare the sub-directories to be built here
```

```
#
```

```
SUBDIRS = \
$(EOLIST)
```

```
#
```

```
Get the 'head' of the build environment. This includes default targets and
```

```
paths to tools
```

```
#
```

```
include $(AP_WORK)\build\NWGNUhead.inc
```

```
#
```

```
build this level's files
```

```
#
```

```
Make sure all needed macro's are defined
```

```

#

JKCOMMON = ../common

#
These directories will be at the beginning of the include list, followed by
INCDIRS
#
XINCDIRS += \
$(JKCOMMON) \
$(AP_WORK)/include \
$(NWOS) \
$(AP_WORK)/modules/arch/netware \
$(APR)/include \
$(APRUTIL)/include \
$(APR) \
$(JAVA_HOME)/include \
$(JAVA_HOME)/include/netware \
$(EOLIST)

#
These flags will come after CFLAGS
#
XCFLAGS += \
$(EOLIST)

#
These defines will come after DEFINES
#
XDEFINES += \
-D__NOVELL_LIBC__ \
-D_POSIX_SOURCE \
$(EOLIST)

#
These flags will be added to the link.opt file
#
XLFLAGS += \
$(EOLIST)

#
These values will be appended to the correct variables based on the value of
RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
$(EOLIST)

```

```
XCFLAGS += \
$(EOLIST)
```

```
XDEFINES += \
$(EOLIST)
```

```
XLFLAGS += \
$(EOLIST)
endif
```

```
ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
$(EOLIST)
```

```
XCFLAGS += \
$(EOLIST)
```

```
XDEFINES += \
$(EOLIST)
```

```
XLFLAGS += \
$(EOLIST)
endif
```

```
ifeq "$(RELEASE)" "release"
XINCDIRS += \
$(EOLIST)
```

```
XCFLAGS += \
$(EOLIST)
```

```
XDEFINES += \
$(EOLIST)
```

```
XLFLAGS += \
$(EOLIST)
endif
```

```
#
```

```
These are used by the link target if an NLM is being generated
This is used by the link 'name' directive to name the nlm. If left blank
TARGET_nlm (see below) will be used.
```

```
#
```

```
NLM_NAME = mod_jk
```

```
#
```

```
This is used by the link '-desc ' directive.
If left blank, NLM_NAME will be used.
```

```
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Jakarta/Tomcat $(JK_VERSION_STR)

#
This is used by the link '-copy' directive.
If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
This is used by the '-threadname' directive. If left blank,
NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
If this is specified, it will override VERSION value in
$(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152

#
If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
If this is specified it will be used by the link '-exit' directive
#
NLM_EXIT_SYM = _LibCPostlude

#
If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
```

```

If this is specified it will be linked in with the XDCData option in the def
file instead of the default of $(NWOS)/apache.xdc. XDCData can be disabled
by setting APACHE_UNIPROC in the environment
#
XDCDATA =

#
If there is an NLM target, put it here
#
TARGET_nlm = \
$(OBJDIR)/mod_jk.nlm \
$(EOLIST)

#
If there is an LIB target, put it here
#
TARGET_lib = \
$(EOLIST)

#
These are the OBJ files needed to create the NLM target above.
Paths must all use the '/' character
#
FILES_nlm_objs = \
$(OBJDIR)/jk_nwmain.o \
$(OBJDIR)/jk_ajp12_worker.o \
$(OBJDIR)/jk_ajp13.o \
$(OBJDIR)/jk_ajp13_worker.o \
$(OBJDIR)/jk_ajp14.o \
$(OBJDIR)/jk_ajp14_worker.o \
$(OBJDIR)/jk_ajp_common.o \
$(OBJDIR)/jk_connect.o \
$(OBJDIR)/jk_context.o \
$(OBJDIR)/jk_jni_worker.o \
$(OBJDIR)/jk_lb_worker.o \
$(OBJDIR)/jk_map.o \
$(OBJDIR)/jk_md5.o \
$(OBJDIR)/jk_msg_buff.o \
$(OBJDIR)/jk_pool.o \
$(OBJDIR)/jk_shm.o \
$(OBJDIR)/jk_sockbuf.o \
$(OBJDIR)/jk_status.o \
$(OBJDIR)/jk_uri_worker_map.o \
$(OBJDIR)/jk_util.o \
$(OBJDIR)/jk_worker.o \
$(OBJDIR)/mod_jk.o \
$(EOLIST)

```

```

#
These are the LIB files needed to create the NLM target above.
These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 libcpre.o \
$(EOLIST)

#
These are the modules that the above NLM target depends on to load.
These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
$(EOLIST)

#
If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
Any additional imports go here
#
FILES_nlm_Ximports = \
 @$(APR)/aprlib.imp \
 @$(NWOS)/httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
$(EOLIST)

#
Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
$(EOLIST)

```

```

#
These are the OBJ files needed to create the LIB target above.
Paths must all use the '/' character
#
FILES_lib_objs = \
$(EOLIST)

#
implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
Updated this target to create necessary directories and copy files to the
correct place. (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
copy $(OBJDIR)*.nlm $(INSTALL)\Apache2\modules*.

#
Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc: $(JKCOMMON)/jk_version.h $(OBJDIR)
@echo Creating $@
@awk -f ../../../../common/build/get_ver.awk $< > $@

#
Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
Include the 'tail' makefile that has targets that depend on variables defined
in this makefile
#

include $(AP_WORK)\build\NWGNUtail.inc

```

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## 17.2 expat 2.2.1

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

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
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 library options
LD_SOOPTIONS= -Wl,-Bsymbolic

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

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

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

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| 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} $@

Bind internal references

LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library
BIR_DEPS=

```

```

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
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<body BGCOLOR="#ffffff">
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</body>
</html>

```

## 17.5 libphonenumber 8.5.1

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## 17.6 libxml2 2.9.8

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- \* Fix compiler to not make output executable.

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- \* Added generation of field number constants.

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- \* Small patch improving performance of in Python serialization.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- \* Detect whether zlib is new enough in configure script.

- \* Fixes for Solaris 10 32/64-bit confusion.

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- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

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- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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- jsp\_2\_2.xsd
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## 18.4 tomcat-embed-core/servlet/resources/

### 8.5.6

#### 18.4.1 Available under license :

Apache Tomcat

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd

- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
 targetNamespace="http://java.sun.com/xml/ns/javaee"
 xmlns:javaee="http://java.sun.com/xml/ns/javaee"
 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
 elementFormDefault="qualified"
 attributeFormDefault="unqualified"
 version="1.3">
<xsd:annotation>
<xsd:documentation>
```

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```
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