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

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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

-----

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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1.7 spring-boot-starter-json 2.0.3

1.8 spring-framework 4.3.23

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1.10 hibernate-jpa 1.0.0

1.11 spring-boot-autoconfigure 1.5.20
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package org.springframework.boot.autoconfigure.cloud;

import org.springframework.boot.autoconfigure.AutoConfigureOrder;
import org.springframework.boot.autoconfigure.EnableAutoConfiguration;
import org.springframework.boot.autoconfigure.condition.ConditionalOnClass;
import org.springframework.boot.autoconfigure.condition.ConditionalOnMissingBean;
import org.springframework.boot.autoconfigure.condition.ConditionalOnProperty;
import org.springframework.cloud.Cloud;
import org.springframework.cloud.app.ApplicationInstanceInfo;
import org.springframework.cloud.config.java.CloudScan;
import org.springframework.cloud.config.java.CloudScanConfiguration;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.annotation.Import;
import org.springframework.context.annotation.Profile;
import org.springframework.core.Ordered;

/**
 * {@link EnableAutoConfiguration Auto-configuration} for Spring Cloud.
 * <p>
 * Activates when there is no bean of type {@link Cloud} is configured in the context, the
 * {@link Cloud} type (this spring-cloud) is on the classpath, and the "cloud" profile is
 * active.
 * <p>
 * Once in effect, the auto-configuration is the equivalent of adding the
 * {@link CloudScan} annotation in one of the configuration file. Specifically, it adds a
 * bean for each service bound to the application and one for
 * {@link ApplicationInstanceInfo}
 * <p>
 * @author Ramnivas Laddad
 * @since 1.2.0
 *<*/
@Configuration
@Profile("cloud")
@AutoConfigureOrder(CloudAutoConfiguration.ORDER)
@ConditionalOnClass(CloudScanConfiguration.class)
@ConditionalOnMissingBean(Cloud.class)
@ConditionalOnProperty(prefix = "spring.cloud", name = "enabled", havingValue = "true",
matchIfMissing = true)
@Import(CloudScanConfiguration.class)
public class CloudAutoConfiguration {

// Cloud configuration needs to happen early (before data, mongo etc.)
private static final int ORDER = Ordered.HIGHEST_PRECEDENCE + 20;

}

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1.12 log4j-slf4j-impl 2.8.2

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1.14 txw2 2.3.2

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1.15 jul-to-slf4j 1.7.25

1.16 spring-boot-starter-tomcat 1.5.10

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1.17 spring-aop 4.3.23
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 *
package org.springframework.aop;

import org.aopalliance.aop.Advice;

/**
 * Base interface holding AOP <b>advice</b> (action to take at a joinpoint)
 * and a filter determining the applicability of the advice (such as
 * a pointcut). <i>This interface is not for use by Spring users, but to
 * allow for commonality in support for different types of advice.</i>
 *
 * Spring AOP is based around <b>around advice</b> delivered via method
 * <b>interception</b>, compliant with the AOP Alliance interception API.
 * The Advisor interface allows support for different types of advice,
 * such as <b>before</b> and <b>after</b> advice, which need not be
 * implemented using interception.
 *
 * @author Rod Johnson
 */

public interface Advisor {

    /**
     * Return the advice part of this aspect. An advice may be an
     * interceptor, a before advice, a throws advice, etc.
     * @return the advice that should apply if the pointcut matches
     * @see org.aopalliance.intercept.MethodInterceptor
     * @see BeforeAdvice
     * @see ThrowsAdvice
     * @see AfterReturningAdvice
     */
    Advice getAdvice();

    /**
     * Return whether this advice is associated with a particular instance
     * (for example, creating a mixin) or shared with all instances of
     * the advised class obtained from the same Spring bean factory.
     * <p><b>Note that this method is not currently used by the framework.</b>
     * Typical Advisor implementations always return { @code true }.
     * Use singleton/prototype bean definitions or appropriate programmatic
     * proxy creation to ensure that Advisors have the correct lifecycle model.
     */

boolean isPerInstance();

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1.28 jaxb-runtime 2.3.2

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1.36 activiti-bpmn-model 6.0.0

1.37 mysql-jdbc 8.0.12
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* */

package com.mysql.cj.protocol.x;

import java.util.List;
import com.mysql.cj.protocol.Warning;
import com.mysql.cj.x.protobuf.MysqlxDatatypes.Scalar;

public class Notice implements Warning {

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

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

    private int noticeType = 0;

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

    private Integer paramType = null;

    private int noticeType = 0;

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

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

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

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

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

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

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

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

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

public String getParamName() {
    return this.paramName;
}

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

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

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MySQL Connector/J 8.0

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.42 spring-expression 4.3.23

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 */

package org.springframework.expression;

/**
 * An AccessException is thrown by an accessor if it has an unexpected problem.
 * @author Andy Clement
 * @since 3.0
 */
@SuppressWarnings("serial")
public class AccessException extends Exception {

/**
 * Create an AccessException with a specific message.
 * @param message the message
 */
public AccessException(String message) {
    super(message);
}

/**
 * Create an AccessException with a specific message and cause.
 * @param message the message
 * @param cause the cause
 */
public AccessException(String message, Exception cause) {

super(message, cause);
}

}
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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1.45 spring-boot-starter-jdbc 1.5.10

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1.48 spring-security-core 5.0.12

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*/

package org.springframework.security.jackson2;
import com.fasterxml.jackson.annotation.*;
import org.springframework.security.core.GrantedAuthority;
import java.util.Collection;

/**
 * This is a Jackson mixin class helps in serialize/deserialize
 * { @link org.springframework.security.authentication.AnonymousAuthenticationToken} class. To use this class
 * you need to register it
 * with { @link com.fasterxml.jackson.databind.ObjectMapper} and { @link SimpleGrantedAuthorityMixin} because
 * AnonymousAuthenticationToken contains SimpleGrantedAuthority.
 * <pre>
 * ObjectMapper mapper = new ObjectMapper();
 * mapper.registerModule(new CoreJackson2Module());
 * </pre>
 * 
 * &lt;i&gt;Note: This class will save full class name into a property called @class</i&gt;
 * 
 * @author Jitendra Singh
 * @see CoreJackson2Module
 * @see SecurityJackson2Modules
 * @since 4.2
 */
@JsonTypeInfo(use = JsonTypeInfo.Id.CLASS, include = JsonTypeInfo.As.PROPERTY)
@JsonAutoDetect(fieldVisibility = JsonAutoDetect.Visibility.ANY, isGetterVisibility =
@JsonIgnoreProperties(ignoreUnknown = true)
class AnonymousAuthenticationTokenMixin {

/**
 * Constructor used by Jackson to create object of { @link
 * org.springframework.security.authentication.AnonymousAuthenticationToken}. 
 * 
 * @param keyHash hashCode of key provided at the time of token creation by using
 * { @link
 * org.springframework.security.authentication.AnonymousAuthenticationToken#AnonymousAuthenticationToken(String,
 * Object, Collection)}
 * @param principal the principal (typically a &lt;code&gt;UserDetails&lt;/code&gt;)
 * @param authorities the authorities granted to the principal
 */
@JsonCreator
public AnonymousAuthenticationTokenMixin(@JsonProperty("keyHash") Integer keyHash,
@JsonProperty("principal") Object principal,
@JsonProperty("authorities") Collection<? extends GrantedAuthority> authorities) {
    }
}
1.49 kxml 2.2.2

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- jsp_2_3.xsd
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- web-common_3_1.xsd
- web-fragment_3_1.xsd

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- javae_6.xsd
- javae_web_services_1_3.xsd
- javae_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
- javae_7.xsd
- javae_web_services_1_4.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- 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

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JDT Core Batch Compiler component, which is open source software.
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- javaee_web_services_1_2.xsd
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- 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
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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* Project home: https://projects.eclipse.org/projects/ee4j.jaxb-impl

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1.70 mongo-java-driver 3.4.3

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zlib.h -- interface of the 'zlib' general purpose compression library
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The extras authors are:
* Jonathan Lange
* Martin Pool
* Robert Collins

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mgo:

mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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1.71 h2 1.3.168

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package org.springframework.amqp;

/**
* Runtime wrapper for an authentication exception.

* @author Gary Russell
* @since 1.2.1

*/
@SuppressWarnings("serial")
public class AmqpAuthenticationException extends AmqpException {

public AmqpAuthenticationException(Throwable cause) {
    super(cause);
}
}

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1.85 boot-starter 2.0.3

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1.86 spring-boot-starter-logging 1.5.10

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/**
 * Exception that gets thrown when an invalid isolation level is specified,
 * i.e. an isolation level that the transaction manager implementation
 * doesn't support.
 *
 * @author Juergen Hoeller
 * @since 12.05.2003
 */
@SuppressWarnings("serial")
public class InvalidIsolationLevelException extends TransactionUsageException {

/**
 * Constructor for InvalidIsolationLevelException.
 * @param msg the detail message
 */
public InvalidIsolationLevelException(String msg) {
  super(msg);
}

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  <li>Soren Hilmer &lt;hilmer@4mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
  <li>Uwe Guenther &lt;uwe@4csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
  <li>Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
  <li>Waclaw Sierek &lt;waclaw.sierek@4tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
  <li>Ly-Na Phu &lt;lyna.phu@4init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
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  <li>Carmen Bastiaans &lt;cbastiaa@4microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>
  <li>Tomas Gustavsson &lt;tomas@4primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>
  <li>Eugen Kuleshov &lt;euxx@4hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>
  <li>Megan Woods &lt;meganwoods@4sekurafile.com&gt; - initial implementation of ECIES.</li>
  <li>Christian Geuer-Pollmann &lt;geueerp@4apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>
  <li>Michael M&amp;#252;hle &lt;michael@4mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
  <li>Michael Mansell &lt;me@4michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>
  <li>Chris Southern &lt;CSouthern@4baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.</li>
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Mike Bean &lt;mbean#lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek &lt;m526225#student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms &lt;jgarms#yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

Mike Bremford &lt;mike#big.faceless.org&gt; - contributing the initial PKCS7 implementation.

Shankar Srinivasan &lt;ss002#yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;ilsestef#skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk &lt;kciosk#max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier &lt;Thomas.Houtekier#tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.

Don Hillsberry &lt;hillsber#dialcorp.com&gt; - S/Mime testing and debugging.

Kazuo Furuya &lt;kfuruya#infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny &lt;jdnovotny#lbl.gov&gt; - initial work on the OpenSSL PEM processing.

Joel Hockey &lt;joel.hockey#qsipayments.com&gt; - initial work on the OpenSSL PEM processing.

John Steenbruggen &lt;JohnS#geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin#chapweske.com&gt; - ordering patch for Tiger message digest.

John Serock &lt;jserock#hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.

Sascha Weinreuter &lt;Sascha.Weinreuter#alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Andre Wehnert &lt;aw5#mail.in.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono &lt;lo_iacono#nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach#certivo.net&gt; - SMIME v2 compatibility patches.

Marcus Povey &lt;mpovey#brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clau#szlig; &lt;sc2#inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza#alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall &lt;rsdio#metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes#eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor#mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints.
constructor.</li>
<li>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
<li>Graham Coles &lt;graham.coles&#064;#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J&ouml;n von Kattch&eacute;e &lt;J.Kattchee&#064;#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Matteo Artuso &lt;matartuso&#064;#064;libero.it&gt; - picking up the possible overead in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian&#064;#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;eso&#064;#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>J&ouml;n Schwarze &lt;JSchwarze&#064;#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist &lt;blkl&#064;#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy&#064;#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael H&auml;usler &lt;ehauesler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland &lt;johans&#064;#064;nettfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicolai &lt;johannes.nicolai&#064;#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
<li>Marc Doberva &lt;marc.doberva&#064;#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak&#064;#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen &lt;jcohen&#064;#064;forumsy.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong&#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelin&lt;hes&#064;#064;lezecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu&lt;stefanpuiuro&#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang &lt;kaiseryang&#064;#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;jiri.urbanec&#064;#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>
<li>Justin Kolb &lt;jkolb&#064;#064;pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>
<li>Ralf Hauser &lt;ralfhauser&#064;#064;gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Michal Dvorak &lt;m_Dvorak&#064;#064;km.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
<li>Oliver Refalo &lt;Olivier_Refalo&#064;#064;fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>
<li>Mariusz Bandola &lt;mariusz.bandola&#064;cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein &lt;brien.oberstein&#064;transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>
<li>Ian Haywood &lt;ian&#064;#064;haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;s34gull&#064;mac.com&gt; - initial support for reading multiple rings from a PGP key
file.

- Andrew Thornton &lt;andrew@064cared.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.
- Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.
- Antoon Bosselaers &lt;Antoon.Bosselaers@064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.
- Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.
- Doug &lt;ummmmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.
- Francois Staes &lt;fstaes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.
- W.R. Dittmer &lt;wdittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.
- Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of BitString in X.500 name.
- James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.
- Jim Ford &lt;jim@064muirford.com&gt; - 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 &lt;haeusler@064ponton-consulting.de&gt; - extra aliases for provider.
- Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
- Joseph Miller &lt;joseph@064digibreach.net.nz&gt; - addition of ZeroBytePadding.
- Lars &lt;xyz@064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.
- Jeroen van Vianen &lt;jeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.
- Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
- Petr Dukem &lt;pdukem@email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.
- Filipe Silva &lt;filipe.silva@064wedocteconsulting.com&gt; - patch to fix overead issue in BCPGlnputStream.
- Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().
- Jay Gengelbach &lt;jgengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.
- Doug &lt;doug@064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.
- Matthew Mundy &lt;mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.
- Tom Cargill &lt;cargill@064profcon.com&gt; - spelling patch in provider.
- Breitenstrom Christian &lt;C.Breitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
- Zanotti Mirko &lt;zanotti@064cad.it&gt; - patch to ordered equality test for X509Name.
- Nicola Scendonl &lt;nscendonl@064babelps.it&gt; - patch to add sorting to CertPath validation.
- Ville Skytt&amp;uuml; &lt;ville.skytt@064iki.fi&gt; - 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.

- patch to secret key creation encoding

- NullPointerException in OpenPGP, speed up for BCPGInputStream.

- "223" fix for BCPGInputStream new packets.

- initial TSP implementation.

- initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

- initial Mozilla PublicKeyAndChallenge classes.

- initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-geee.org">EGEE project</a> for making the work available.

- ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

- patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

- patch for class cast exception in AuthorityInformationAccess class.

- patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

- 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.

- initial implementation of ISO 78164-4 padding.

- initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

- sequence path to ASN1Dump.

- patches to PGP tools, isRevoked method on PGPPublicKey.

- Initial GOST-28147Mac implementation.

- addition of DES-EDC encryption for RSAPrivate keys to PEMWriter.

- patch to fix parsing issue with OpenSSL PEM based certificate requests.

- additional fix for partial reading with new style PGP packets.

- fix for 31 byte issue and exception throwing by Whirlpool.

- code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

Chris Schultz &lt;cschultz@#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dlmlee@#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@#064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@#064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@#064cardcontact.de&gt; - 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 &lt;david.josse@#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrntan@#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinati, a &lt;http://www.keyon.ch&gt; &lt;http://www.keyon.ch&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@#064bluewin.ch&gt; - 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.

J&ouml;rg Eichhorn &lt;eichhorn@#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.


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 &lt;carlos@#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLOutputStream.
<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen &lt;sneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles &lt;chris_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&uuml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.</li>
<li>David Stacey &lt;DStacey&#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info&#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;roaquin&#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>Germano Rizzo &lt;germano.rizzo&#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; &lt;numaa&#064hotmail.com&gt; - patch for alternate data type recoginition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js&#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike&#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns&#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller&#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
Mark Nelson &lt;mark@nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;juliennpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pknopp@#064ntg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozd &lt;gwozdziu@#064rpng.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;jbmkallow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPRandomGenerator, VMPMCMac.

Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@#064FreeBSD.org&gt; - 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 &lt;michael@#064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañil&aacute;aga &lt;ilarra@#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@#064allanbank.com&gt; - speedups for OpenPGP CFB mode, clean room JCE patches.

Rui Hodai &lt;ru@#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79@#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bounceycastle_pfitz@#064fitpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson@#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23@#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henrique &lt;pmahenriques@#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code
simplification for OAEPEncoding.

- Lothar Kummeringer &lt;job#064kimmeringer.de&gt;: verbose mode for ASN1Dump, support for DERExternal. DNS performance fix for S/MIME API.
- Richard Farr &lt;farr.se#064gmail.com&gt;: initial SRP-6a implementation.
- Thomas Castiglione &lt;castiglione#064au.ibm.com&gt;: patch to encoding for CRMF OptionalValidity.
- Elisabetta Romani &lt;eromani#064sogi.it&gt;: patch for recognising multiple counter signatures.
- Robin Lundgren &lt;r737lundgren#064gmail.com&gt;: CMPCertificate constructor from X509CertificateStructure fix.
- Petr Kadlec &lt;normegil#064centrum.cz&gt;: fix to sign extension key and IV problem in HC-128, HC-256.
- Andreas Antener &lt;antener_a#064gmx.ch&gt;: fix to buffer reset in AsymmetricBufferedBlockCipher.
- Harendra Rawat &lt;hsrawat#064yahoo.com&gt;: fix for BERConstructedOctetString.
- Rolf Lindemann &lt;lindemann#064trustcenter.de&gt;: patch for PKCS12 key store to support more flexible attribute specifications [BMA-42].
- Alex Artamonov &lt;alexart.home#064gmail.com&gt;: name look up patch for GOST-2001 parameters.
- Mike Lyons &lt;mlyons#064layer7tech.com&gt;: work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
- Chris Cole &lt;chris_h_cole#064yahoo.com&gt;: identified a problem handling null passwords when loading a BKS keystore.
- Tomas Krivanek &lt;tom#064atack.cz&gt;: added checking of Sender header to SignedMailValidator.
- Michael &lt;emfau#064t-online.de&gt;: correction of field error in getResponse method in CertRepMessage.
- Trevor Perrin &lt;trevor#064cryptography.com&gt;: addition of constant time equals to avoid possible timing attacks.
- Markus Kilärings &lt;markus#064primekey.se&gt;: several enhancements to TimeStampResponseGenerator.
- Dario Novakovic &lt;darianis#064yahoo.com&gt;: fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith &lt;msmith#064cbnco.com&gt;: bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio &lt;alimageshelia#064gmail.com&gt;: fix for PEM password encryption of private keys.
- Alex Birkett &lt;alex#064birkett.co.uk&gt;: added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant &lt;waynedgrant#064gmail.com&gt;: additional OIDs for PCKS10 and certificate generation support.
- Frank Cornelis &lt;info#064frankcornelis.be&gt;: additional support classes for CAdES, enhancements to OCSP classes.
- Jan Dittbener &lt;jan#064dittbener.info&gt;: addHeader patch for SMIME generator.
- Bob McGowan &lt;boab.mcgoood#064binternet.com&gt;: patch to support different object and mgf digests in PSS signing.
- Ivo Matheis &lt;matheis#064seeburger.de&gt;: fix to padding verification in ISO-9796-1.
- Marco Sandrini &lt;nessche#064gmail.com&gt;: patch to add IV to ISO9797Alg3Mac.
- Alf Malf &lt;alfilmalf#064hotmail.com&gt;: removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa &lt;alfonso.massa#064insiel.it&gt;: contributions to CMS time stamp classes.
- Giacomo Boccardo &lt;gboccardo#064umaticaspa.it&gt;: initial work on CMSGMTimestampDataParser.
- Arnis Tartu &lt;arnis#064ut.ee&gt;: patches for dealing with OIDs with specific key sizes associated in CMS.
Janusz Sikocinski &lt;J.Sikocinski@gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hj-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064tngetech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; 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 &lt;Andy.Neilson@quest.com&gt;a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rf6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b@064yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc@064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidénte:n Borell &lt;samuel@064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt; pointing out isInfinity issue in ECDSSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Encodable 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 Nokeon 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.
Marcus Lundblad &lt;marcus.lundblad@#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov &lt;st555d#064gmail.com&gt; initial cut of DVCS classes.</li>
<li>Damian Kolasa &lt;fatfreddy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPSecretRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirschler &lt;dev#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio#064matics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>
<li>Babak Najafi &lt;bnajafi#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;ller &lt;eric.mueller#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;andrnhc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tiley &lt;&amp;gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller#064arago.de&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;daniel.heldt#064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;maarts#064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb#064yahoo.com&gt; testing for odd encodings for PGP User Attribute
Subpackets.</li>
<li>Marco Schulze&lt;marco@#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaef&lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>
<li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich&lt;tofibas.wich@#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens&lt;hauke@#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman&lt;dmz@#064galois.com&gt; Further quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza&lt;j.kapitza@schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund&lt;joohan@#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;pety@#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre&lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot&lt;thomas.belot+BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce&lt;https://github.com/rdocroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Blouml;rn Kautler&lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&amp;uuml;rmann&lt;https://github.com/dschuermann&gt; 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.</li>
<li>Michael &lt;peto@#064halicky.sk&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Tobias Wagner &lt;tofibas.wagner@#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;sgiro@#064google.com&gt; 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.</li>
<li>bschuette&lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot&lt;https://github.com/dalloTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle@#064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oeding &lt;sebastian.oeдинg@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption.
- Niko &lt;nfink95#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.
- akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff &lt;Matthias.Edelhoff#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukas Deputat &lt;lukasz.deputat#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.
- Andrèeacutere Beenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
- Slawomir Jaransowski &lt;https://github.com/slaweakjaransowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.
- William Glanton &lt;wglanton77#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].
- jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegle &lt;https://github.com/ljaegele#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.
- The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.
- Gorka Irazoqui &lt;girazoki#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
- Joerg Senekowitsch &lt;joerg.senekowitsch#veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.
- Alexandr Krivoshta &lt;https://github.com/064ya.ru&gt; N4 calculation fix to GOFB mode.
- Artem Storozhuk &lt;storojs72#064gmail.com&gt; N4 calculation fix to GOFB mode.
- Na Yu &lt;https://github.com/064samsung.com&gt; Constructor patches to CMC PKIData.
- Evangelos Karatsiolis &lt;ekaratsiolis#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.
- VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.
- Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECnist keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- Artem Storozhuk &lt;https://github.com/storojs72#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
- Andreas Glaser &lt;https://github.com/andreas.glaser#064gi-de.com&gt; patch to recognise ANSI curves for PKCS#10 requests.
- codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECnist-2012.
- FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.
- 4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.
- ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.
- jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.
- str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.
- Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP80DRCBG.
- David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPNT bounds checking.
- chris mcconn &lt;0xchrismcconn@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
- ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
- Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().
- Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.
- Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.
- Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
- Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.
- Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.
- Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
- Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.
- catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.
- fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
- MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.
- Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
- Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.
- Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.
- sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JounaledAlgorithm.
- Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt;: Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt;: Initial implementation of EthereumIESEngine.</li>
<li>Golden Loopy &lt;https://github.com/looly&gt;: Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palméer, TrueSec &lt;Henrik.Palmer@064truesec.se&gt;: Additional improvements to constant time comparisons.</li>
<li>René Korthaus &lt;https://github.com/securitykernel&gt;: Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt;: Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilionel&gt;: Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt;: Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt;: Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt;: Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt;: Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweaks to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt;: Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt;: Addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt;: Update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt;: Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt;: GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;https://github.com/tobias@064pentagrid.ch&gt;: Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>
</body>
</html>

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1.92 groovy-all 2.4.15

1.93 cxf-tools-common 3.3.5

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package org.springframework.xml.validation;

import org.xml.sax.ErrorHandler;
import org.xml.sax.SAXParseException;

/**
 * Subinterface of {@link ErrorHandler} that allows the registered errors to be retrieved.
 * @author Arjen Poutsma
 * @since 2.0.1
 */
public interface ValidationErrorHandler extends ErrorHandler {

/**
 * Returns the errors collected by this error handler.
 * @return the errors
 */
SAXParseException[] getErrors();
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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

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

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import java.io.IOException;
import java.io.OutputStream;
import ch.qos.logback.core.CoreConstants;

public class EchoEncoder<E> extends EncoderBase<E> {

    String fileHeader;
    String fileFooter;

    public void doEncode(E event) throws IOException {
        String val = event + CoreConstants.LINE_SEPARATOR;
        outputStream.write(val.getBytes());
        // necessary if ResilientFileOutputStream is buffered
        outputStream.flush();
    }

    public void close() throws IOException {
        if (fileFooter == null) {
            return;
        }
        outputStream.write(fileFooter.getBytes);
    }

    public void init(OutputStream os) throws IOException {
        super.init(os);
        if (fileHeader == null) {
            super.init(os);
        }
    }
}
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 */

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

/*
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 */
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }

        return mask;
    }
}
package com.hazelcast.security.permission;

import java.security.Permission;

/**
 * @implNote Returned from methods that return Permission.
 *
 * @return a permission or java.security.NoPermission if permission
 *        can't be determined.
 */
public class ConfigPermission extends ClusterPermission {

    private static final String CONFIG_PERMISSION_NAME = "<config>";
    private static final String CONFIG_PERMISSION_ACTIONS = "config";

    public ConfigPermission() {
        super(CONFIG_PERMISSION_NAME);
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return CONFIG_PERMISSION_ACTIONS;
    }

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     * limitations under the License.
     */

    package com.hazelcast.security.permission;

    import java.security.Permission;

    /**
     * @implNote Returned from methods that return Permission.
     *
     * @return a permission or java.security.NoPermission if permission
     *        can't be determined.
     */
    public class ConfigPermission extends ClusterPermission {

        private static final String CONFIG_PERMISSION_NAME = "<config>";
        private static final String CONFIG_PERMISSION_ACTIONS = "config";

        public ConfigPermission() {
            super(CONFIG_PERMISSION_NAME);
        }

        @Override
        public boolean implies(Permission permission) {
            return getClass() == permission.getClass();
        }

        @Override
        public String getActions() {
            return CONFIG_PERMISSION_ACTIONS;
        }
    }

    /*
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     */
package com.hazelcast.security.permission;

public class PNCounterPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public PNCounterPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
            return mask;
        }
    }
}
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*/
package com.hazelcast.security.permission;
import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;
import java.security.Permission;
/**
* TODO: Object Permission
*/
public abstract class InstancePermission extends ClusterPermission {
protected static final int NONE = 0;
protected static final int CREATE = 1;
protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);
final StringBuilder s = new StringBuilder();
for (String action : actions) {
s.append(action).append(" ");
}

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// trim the trailing space
if (s.length() > 0) {
    s.setLength(s.length() - 1);
}
this.actions = s.toString();

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    InstancePermission that = (InstancePermission) obj;
    if (this.getClass() != that.getClass()) {
        return false;
    }
    boolean maskMatch = (this.mask & that.mask) == that.mask;
    boolean actionMatch = (this.actions.hashCode() == that.actions.hashCode());
    return maskMatch && actionMatch;
}
if (getMask() != obj.getMask()) {
    return false;
}
InstancePermission other = (InstancePermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
if (mask != other.mask) {
    return false;
}
return true;
}
*/

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*/

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {
    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {

int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
} /*
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*/

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {
    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}
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 */
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.cp.internal.datastructures.atomiclong.RaftAtomicLongService;
import com.hazelcast.cp.internal.datastructures.atomicref.RaftAtomicRefService;
import com.hazelcast.cp.internal.datastructures.countdownlatch.RaftCountDownLatchService;
import com.hazelcast.cp.internal.datastructures.lock.RaftLockService;
import com.hazelcast.cp.internal.datastructures.semaphore.RaftSemaphoreService;
import com.hazelcast.crdt.pncounter.PNCounterService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.flakeidgen.impl.FlakeIdGeneratorService;
import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

@SuppressWarnings("checkstyle:executablestatementcount")
public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
}
public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";
public static final String ACTION_USER_CODE_DEPLOY = "deploy";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String, PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });
}
public Permission create(String name, String... actions) {
    return new AtomicLongPermission(name, actions);
}
}

PERMISSION_FACTORY_MAP.put(RaftAtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftCountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftSemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RaftLockService.SERVICE_NAME, new PermissionFactory() {
@Override
public Permission create(String name, String... actions) {
    return new LockPermission(name, actions);
}
});
 PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
 PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
 PERMISSION_FACTORY_MAP.put(FlakeIdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new FlakeIdGeneratorPermission(name, actions);
    }
});
 PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
 PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
 PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
 PERMISSION_FACTORY_MAP.put(RaftAtomicRefService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(UserCodeDeploymentService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new UserCodeDeploymentPermission(actions);
    }
});

PERMISSION_FACTORY_MAP.put(PNCounterService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new PNCounterPermission(name, actions);
    }
});

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: "+ serviceName);
    }

    return permissionFactory.create(name, actions);
}

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        return mask;
    }
}
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {

                if (ActionConstants.ACTION_CREATE.equals(action)) {
                    mask |= CREATE;
                } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                    mask |= DESTROY;
                }

                return mask;
            }
        }
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        */
java

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
    return mask;
}
int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_ADD.equals(action)) {
        mask |= ADD;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
}
return mask;

# Jackson JSON processor

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

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## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

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SOFTWARE.

package com.hazelcast.security.permission;

import com.hazelcast.internal.usercodedeployment.UserCodeDeploymentService;

public class UserCodeDeploymentPermission extends InstancePermission {

    private static final int DEPLOY = 4;
    private static final int ALL = DEPLOY;

    public UserCodeDeploymentPermission(String... actions) {
        super(UserCodeDeploymentService.SERVICE_NAME, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                mask = ALL;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_USER_CODE_DEPLOY.equals(action)) {
                mask |= DEPLOY;
            }
        }
        return mask;
    }

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     */

mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;
}
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*/

package com.hazelcast.security.permission;
import java.security.Permission;
public class TransactionPermission extends ClusterPermission {
    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}

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 */

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;
    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
                mask |= ACQUIRE;
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
                mask |= RELEASE;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            }
        }
        if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
        else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
        return mask;
    }

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     */
package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        }
        return mask;
    }

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*/
mask |= CREATE;
} else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
    mask |= PUBLISH;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
}
return mask;

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }

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     */

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}

return mask;

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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {

public class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new AllPermissionsCollection();
    }
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new AllPermissionsCollection();
    }
}
return new Enumeration<Permission>() {
    boolean more = all;

    @Override
    public boolean hasMoreElements() {
        return more;
    }

    @Override
    public Permission nextElement() {
        more = false;
        return ALL_PERMISSIONS;
    }
};

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}

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package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }

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     */
package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

    /*
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package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }
            // Other methods...
        };
    }

    // Other methods...
}
@Override
public Permission nextElement() {
    return null;
}
};

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
}

package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final  int LOCK = 4;
    private static final  int READ = 8;
    private static final  int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

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     * limitations under the License.
     */

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

public ClusterPermission(String name) {
    super(name);
}

@Override
public PermissionCollection newPermissionCollection() {
    return new ClusterPermissionCollection(getClass());
}

@Override
public int hashCode() {
    if (hashcode == 0) {
        final int prime = 31;
        int result = 1;
        if (getName() == null) {
            result = prime * result + 13;
        } else {
            result = prime * result + getName().hashCode();
        }
        hashcode = result;
    }
    return hashcode;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
}

/*
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 */
package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_INDEX.equals(action)) {
                mask |= INDEX;
            } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
                mask |= INTERCEPT;
            }
        }
        return mask;
    }
}

Open Source Used in Cisco Kinetic for Cities 4.2.0.0900
mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}

return mask;

*/

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*/

package com.hazelcast.security.permission;

public class FlakeIdGeneratorPermission extends InstancePermission {

    private static final int MODIFY = 4;

    private static final int ALL = MODIFY | CREATE | DESTROY;

    public FlakeIdGeneratorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
        return mask;
    }
}

package com.hazelcast.security.permission;
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}

return mask;

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 */

class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }
}
public ClusterPermissionCollection(Class<? extends Permission> permClass) {
    this.permClass = permClass;
}

@Override
public void add(Permission permission) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
        || (permission instanceof ClusterPermission);
    if (shouldAdd && !implies(permission)) {
        perms.add(permission);
    }
}

public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        } else {
            return false;
        }
    }
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
            } else {
                if (p.implies(perm)) {
                    implies = true;
                }
            }
        }
        if (!implies) {
            iter.remove();
        }
    }
}
implies = true;
break;
}
if (implies) {
    iter.remove();
}
setReadOnly();

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

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 */

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {
    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
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*/

/**
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* @see com.hazelcast.security.jsm
*/
package com.hazelcast.security.permission;

1.115 snake-yaml 1.23
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1.116 error-prone-annotations 2.1.3
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```xml
<component name="CopyrightManager">
  <settings default="Google">
    <module2copyright>
      <element module="All" copyright="Google" />
    </module2copyright>
    <LanguageOptions name="XML">
      <option name="fileTypeOverride" value="3" />
      <option name="prefixLines" value="false" />
    </LanguageOptions>
  </settings>
</component>

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  <copyright>
    <option name="notice" value="Copyright &© 2002-2017 the original author or authors.
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      See the License for the specific language governing permissions and limitations under the License." />
    <option name="keyword" value="Copyright" />
    <option name="allowReplaceKeyword" value="" />
    <option name="myName" value="Google" />
    <option name="myLocal" value="true" />
  </copyright>
</component>
```

1.117 spring-orm 4.3.23

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```
package org.springframework.orm;

import org.springframework.dao.OptimisticLockingFailureException;

/**
 * Exception thrown on an optimistic locking violation for a mapped object.
 * Provides information about the persistent class and the identifier.
 *
 * @author Juergen Hoeller
 * @since 13.10.2003
 */
@SuppressWarnings("serial")
public class ObjectOptimisticLockingFailureException extends OptimisticLockingFailureException {
    private Object persistentClass;
    private Object identifier;

    /**
     * Create a general ObjectOptimisticLockingFailureException with the given message,
     * without any information on the affected object.
     * @param msg the detail message
     * @param cause the source exception
     */
    public ObjectOptimisticLockingFailureException(String msg, Throwable cause) {
        super(msg, cause);
    }

    /**
     * Create a new ObjectOptimisticLockingFailureException for the given object,
     * with the default "optimistic locking failed" message.
     * @param persistentClass the persistent class
     * @param identifier the ID of the object for which the locking failed
     */
    public ObjectOptimisticLockingFailureException(Class<?> persistentClass, Object identifier) {
        this(persistentClass, identifier, null);
    }

    /**
     * Create a new ObjectOptimisticLockingFailureException for the given object,
     * with the default "optimistic locking failed" message.
     * @param persistentClass the persistent class
     */
}
public ObjectOptimisticLockingFailureException(Class<?> persistentClass, Object identifier, Throwable cause) {
    this(persistentClass, identifier, "Object of class [" + persistentClass.getName() + "] with identifier [" + identifier + "]: optimistic locking failed", cause);
}

public ObjectOptimisticLockingFailureException(Class<?> persistentClass, Object identifier, String msg, Throwable cause) {
    super(msg, cause);
    this.persistentClass = persistentClass;
    this.identifier = identifier;
}

public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier) {
    this(persistentClassName, identifier, null);
}

public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier, Throwable cause) {
    this(persistentClassName, identifier, "optimistic locking failed", cause);
}
"Object of class " + persistentClassName + "] with identifier "] + identifier + "]: optimistic locking failed", cause);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the given explicit message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param msg the detail message
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(
    String persistentClassName, Object identifier, String msg, Throwable cause) {
    super(msg, cause);
    this.persistentClass = persistentClassName;
    this.identifier = identifier;
}

/**
 * Return the persistent class of the object for which the locking failed.
 * If no Class was specified, this method returns null.
 */
public Class<?> getPersistentClass() {
    return (this.persistentClass instanceof Class ? (Class<?>) this.persistentClass : null);
}

/**
 * Return the name of the persistent class of the object for which the locking failed.
 * Will work for both Class objects and String names.
 */
public String getPersistentClassName() {
    if (this.persistentClass instanceof Class) {
        return ((Class<?>) this.persistentClass).getName();
    }
    return (this.persistentClass != null ? this.persistentClass.toString() : null);
}

/**
 * Return the identifier of the object for which the locking failed.
 */
public Object getIdentifier() {
    return this.identifier;
}
}
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1.118 apache-httpclient 4.5.6

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1.138 hibernate 5.0.12

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Instead, for common transaction-related tasks users must utilize a proprietary API known as ExtendedJTATransaction.

1.139 spring-boot-starter-aop 1.5.10

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1.140 httpcomponents-client 4.5.8

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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1.147 cxf-rt-javascript 3.3.5

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1.153 apache-felix-framework 5.2.0

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1.154 wsdl4j 1.6.3

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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Library is used in it and that the Library and its use are covered by
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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1.162 mchange-commons-java 0.2.15

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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.

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

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

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
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public abstract class AbstractFailureAnalyzer<T extends Throwable>
        implements FailureAnalyzer {

    @Override
    public FailureAnalysis analyze(Throwable failure) {
        T cause = findCause(failure, getCauseType());
        if (cause != null) {
            return analyze(failure, cause);
        }
        return null;
    }

    protected abstract FailureAnalysis analyze(Throwable rootFailure, T cause);

    @SuppressWarnings("unchecked")
    protected Class<? extends T> getCauseType() {
        return (Class<? extends T>) ResolvableType
                .forClass(AbstractFailureAnalyzer.class, getClass()).resolveGeneric();
    }

    @SuppressWarnings("unchecked")
    protected final <E extends Throwable> T findCause(Throwable failure, Class<E> type) {
        while (failure != null) {
            if (type.isInstance(failure)) {
                return (T) failure;
            }
            failure = failure.getCause();
        }
    }
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1.168 json-lib 2.4

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1.170 spring-boot-starter-log4j2 2.0.3

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1.172 core-module 1.1.11

1.173 spring-oxm 4.3.23

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 */

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import java.lang.reflect.Type;

/**
 * Subinterface of { @link Marshaller} that has support for Java 5 generics.
 * @author Arjen Poutsma
 * @since 3.0.1
 */
public interface GenericMarshaller extends Marshaller {

/**
 * Indicates whether this marshaller can marshal instances of the supplied generic type.
 * @param genericType the type that this marshaller is being asked if it can marshal
 * @return { @code true} if this marshaller can indeed marshal instances of the supplied type;
 * { @code false} otherwise
 */
boolean supports(Type genericType);

}

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1.174 spring-context 4.3.23

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 */

package org.springframework.cache;
import java.util.concurrent.Callable;

/**
 * Interface that defines common cache operations.
 *
 * <b>Note:</b> Due to the generic use of caching, it is recommended that
 * implementations allow storage of <tt>null</tt> values (for example to
 * cache methods that return [@code null]).
 *
 * @author Costin Leau
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @since 3.1
 */

public interface Cache {

    /**
     * Return the cache name.
     */
    String getName();

    /**
     * Return the underlying native cache provider.
     */
    Object getNativeCache();

    /**
     * Return the value to which this cache maps the specified key.
     *
     * Returns [@code null] if the cache contains no mapping for this key;
     * otherwise, the cached value (which may be [@code null] itself) will
     * be returned in a [@link ValueWrapper].
     *
     * @param key the key whose associated value is to be returned
     * @return the value to which this cache maps the specified key,
     * contained within a [@link ValueWrapper] which may also hold
     * a cached [@code null] value. A straight [@code null] being
     * returned means that the cache contains no mapping for this key.
     * @see #get(Object, Class)
     */
    ValueWrapper get(Object key);

    /**
     * Return the value to which this cache maps the specified key,
     * generically specifying a type that return value will be cast to.
     *
     * Note: This variant of [@code get] does not allow for differentiating
     * between a cached [@code null] value and no cache entry found at all.
     * Use the standard [@link #get(Object)] variant for that purpose instead.
     *
     * @param key the key whose associated value is to be returned
     */
    Object get(Object key, Class<?> type);
*/

*T* T get(Object key, Class<T> type);

/**
 * Return the value to which this cache maps the specified key, obtaining
 * that value from [@code valueLoader] if necessary. This method provides
 * a simple substitute for the conventional "if cached, return; otherwise
 * create, cache and return" pattern.
 *<p>If possible, implementations should ensure that the loading operation
 * is synchronized so that the specified [@code valueLoader] is only called
 * once in case of concurrent access on the same key.
 *<p>If the [@code valueLoader] throws an exception, it is wrapped in
 * a [@link ValueRetrievalException]
 * @param key the key whose associated value is to be returned
 * @return the value to which this cache maps the specified key
 * @throws ValueRetrievalException if the [@code valueLoader] throws an exception
 * @since 4.3
 */
<T> T get(Object key, Callable<T> valueLoader);

/**
 * Associate the specified value with the specified key in this cache.
 *<p>If the cache previously contained a mapping for this key, the old
 * value is replaced by the specified value.
 * @param key the key with which the specified value is to be associated
 * @param value the value to be associated with the specified key
 */
void put(Object key, Object value);

/**
 * Atomically associate the specified value with the specified key in this cache
 * if it is not set already.
 *<p>This is equivalent to:
 *<pre><code>
 * Object existingValue = cache.get(key);
 * if (existingValue == null) {
 *     cache.put(key, value);
 *     return null;
 * }
 * </code></pre>
 */
* } else {
*     return existingValue;
* }

* </code></pre>
* except that the action is performed atomically. While all out-of-the-box
* [{@link CacheManager}] implementations are able to perform the put atomically,
* the operation may also be implemented in two steps, e.g. with a check for
* presence and a subsequent put, in a non-atomic way. Check the documentation
* of the native cache implementation that you are using for more details.
* @param key the key with which the specified value is to be associated
* @param value the value to be associated with the specified key
* @return the value to which this cache maps the specified key (which may be
* {@code null} itself), or also {@code null} if the cache did not contain any
* mapping for that key prior to this call. Returning {@code null} is therefore
* an indicator that the given {@code value} has been associated with the key.
* @since 4.1
*/

ValueWrapper putIfAbsent(Object key, Object value);

/**
 * Evict the mapping for this key from this cache if it is present.
 * @param key the key whose mapping is to be removed from the cache
 */
void evict(Object key);

/**
 * Remove all mappings from the cache.
 */
void clear();

/**
 * A (wrapper) object representing a cache value.
 */
interface ValueWrapper {

/**
 * Return the actual value in the cache.
 */
Object get();
}

/**
 * Wrapper exception to be thrown from [{@link #get(Object, Callable)}]
 * in case of the value loader callback failing with an exception.
 * @since 4.3
 */
@SuppressWarnings("serial")
class ValueRetrievalException extends RuntimeException {

  private final Object key;

  public ValueRetrievalException(Object key, Callable<?> loader, Throwable ex) {
    super(String.format("Value for key '%s' could not be loaded using '%s'", key, loader), ex);
    this.key = key;
  }

  public Object getKey() {
    return this.key;
  }

  }

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1.180 spring-context 5.0.7

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1.188 spring-rabbit 1.7.10

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package org.springframework.amqp.rabbit;

import java.nio.charset.Charset;
import java.util.Date;
import java.util.UUID;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ScheduledFuture;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.amqp.AmqpException;
import org.springframework.amqp.core.AmqpMessageReturnedException;
import org.springframework.amqp.core.AmqpReplyTimeoutException;
import org.springframework.amqp.core.CorrelationAwareMessagePostProcessor;
import org.springframework.amqp.core.Message;
import org.springframework.amqp.core.MessageListener;
import org.springframework.amqp.core.MessagePostProcessor;
import org.springframework.amqp.rabbit.connection.ConnectionFactory;
import org.springframework.amqp.rabbit.core.RabbitTemplate;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ConfirmCallback;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ReturnCallback;
import org.springframework.amqp.rabbit.listener.SimpleMessageListenerContainer;
import org.springframework.amqp.rabbit.support.CorrelationData;
import org.springframework.amqp.support.Correlation;
import org.springframework.amqp.support.converter.MessageConverter;
import org.springframework.beans.factory.BeanNameAware;
import org.springframework.context.SmartLifecycle;
import org.springframework.scheduling.TaskScheduler;
import org.springframework.scheduling.concurrent.ThreadPoolTaskScheduler;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.SettableListenableFuture;

/**
 * Provides asynchronous send and receive operations returning a {@link ListenableFuture}
 * allowing the caller to obtain the reply later, using {@code get()} or a callback.
 * <p>
 * When confirms are enabled, the future has a confirm property which is itself a
 * {@link ListenableFuture}. If the reply is received before the publisher confirm,
 * the confirm is discarded since the reply implicitly indicates the message was
 * published.
 * <p>
 * Returned (undeliverable) request messages are presented as a
 * {@link AmqpMessageReturnedException} cause of an ExecutionException.
 * <p>
 * Internally, the template uses a RabbitTemplate and a
 * SimpleMessageListenerContainer either provided or constructed internally.
 * If an external RabbitTemplate is provided and confirms/returns are enabled,
 * it must not previously have had callbacks registered because this object needs to
 * be the callback.
 * <p>
 * @author Gary Russell
 * @since 1.6
 */

public class AsyncRabbitTemplate implements SmartLifecycle, MessageListener, ReturnCallback,
ConfirmCallback,
BeanNameAware {

public static final int DEFAULT_RECEIVE_TIMEOUT = 30000;

private final Log logger = LogFactory.getLog(this.getClass());

private final RabbitTemplate template;

private final SimpleMessageListenerContainer container;

private final String replyAddress;

@SuppressWarnings("rawtypes")
private final ConcurrentHashMap<String, RabbitFuture> pending = new ConcurrentHashMap<String, RabbitFuture>();

@SuppressWarnings("rawtypes")
private final CorrelationMessagePostProcessor messagePostProcessor = new CorrelationMessagePostProcessor();

private volatile boolean running;
private volatile boolean enableConfirms;
private volatile long receiveTimeout = DEFAULT_RECEIVE_TIMEOUT;
private int phase;
private boolean autoStartup = true;
private Charset charset = Charset.forName("UTF-8");
private String beanName;
private TaskScheduler taskScheduler;
private boolean internalTaskScheduler = true;

/**
 * Construct an instance using the provided arguments. Replies will be
 * routed to the default exchange using the reply queue name as the routing
 * key.
 * @param connectionFactory the connection factory.
 * @param exchange the default exchange to which requests will be sent.
 * @param routingKey the default routing key.
 * @param replyQueue the name of the reply queue to listen for replies.
 */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey,
                           String replyQueue) {
    this(connectionFactory, exchange, routingKey, replyQueue, null);
}

/**
 * Construct an instance using the provided arguments. If 'replyAddress' is null,
 * replies will be routed to the default exchange using the reply queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param connectionFactory the connection factory.
 * @param exchange the default exchange to which requests will be sent.
 * @param routingKey the default routing key.
 * @param replyQueue the name of the reply queue to listen for replies.
 * @param replyAddress the reply address (exchange/routingKey).
 */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey,
    String replyQueue, String replyAddress) {
    Assert.notNull(connectionFactory, "connectionFactory' cannot be null");
    Assert.notNull(routingKey, "routingKey' cannot be null");
    Assert.notNull(replyQueue, "replyQueue' cannot be null");
    this.template = new RabbitTemplate(connectionFactory);
    this.template.setExchange(exchange == null ? "": exchange);
    this.template.setRoutingKey(routingKey);
    this.container = new SimpleMessageListenerContainer(connectionFactory);
    this.container.setQueueNames(replyQueue);
    this.container.setMessageListener(this);
    this.container.afterPropertiesSet();
    if (replyAddress == null) {
        this.replyAddress = replyQueue;
    } else {
        this.replyAddress = replyAddress;
    }
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. Replies will be
 * routed using the default exchange with that queue name as the routing key.
 * @param template a @link RabbitTemplate
 * @param container a @link SimpleMessageListenerContainer.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container) {
    this(template, container, null);
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. If 'replyAddress' is
 * null, replies will be routed using the default exchange with that queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param template a @link RabbitTemplate.
 * @param container a @link SimpleMessageListenerContainer.
 * @param replyAddress the reply address.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container, String
    replyAddress) {
    Assert.notNull(template, "template' cannot be null");
    Assert.notNull(container, "container' cannot be null");
    this.template = template;
    this.container = container;
}
this.container.setMessageListener(this);
if (replyAddress == null) {
  this.replyAddress = container.getQueueNames()[0];
} else {
  this.replyAddress = replyAddress;
}

/**
 * @param autoStartup true for auto start.
 * @see #isAutoStartup()
 */
public void setAutoStartup(boolean autoStartup) {
  this.autoStartup = autoStartup;
}

/**
 * @param phase the phase.
 * @see #getPhase()
 */
public void setPhase(int phase) {
  this.phase = phase;
}

/**
 * Set to true to enable the receipt of returned messages that cannot be delivered
 * in the form of a {@link AmqpMessageReturnedException}.
 * @param mandatory true to enable returns.
 */
public void setMandatory(boolean mandatory) {
  if (mandatory) {
    this.template.setReturnCallback(this);
  }
  this.template.setMandatory(mandatory);
}

/**
 * Set to true to enable publisher confirms. When enabled, the {@link RabbitFuture}
 * returned by the send and receive operation will have a
 * {code ListenableFuture<Boolean>} in its {code confirm} property.
 * @param enableConfirms true to enable publisher confirms.
 */
public void setEnableConfirms(boolean enableConfirms) {
  this.enableConfirms = enableConfirms;
  if (enableConfirms) {
    this.template.setConfirmCallback(this);
  }
}
/**
 * Set the charset to be used when converting byte[] to/from String for
 * @param charset the charset.
 * @deprecated - will be removed in 2.0 when byte[] correlation id is removed
 */
@Deprecated
public void setCharset(Charset charset) {
    this.charset = charset;
}

public String getBeanName() {
    return this.beanName;
}

@Override
public void setBeanName(String beanName) {
    this.beanName = beanName;
}

/**
 * @return a reference to the underlying connection factory in the
 * @link RabbitTemplate.
 */
public ConnectionFactory getConnectionFactory() {
    return this.template.getConnectionFactory();
}

/**
 * Set the receive timeout - the future returned by the send and receive
 * methods will be canceled when this timeout expires. { @code <= 0} means
 * futures never expire. Beware that this will cause a memory leak if a
 * reply is not received. Default: 30000 (30 seconds).
 * @param receiveTimeout the timeout in milliseconds.
 */
public void setReceiveTimeout(long receiveTimeout) {
    this.receiveTimeout = receiveTimeout;
}

public synchronized void setTaskScheduler(TaskScheduler taskScheduler) {
    Assert.notNull(taskScheduler, "'taskScheduler' cannot be null");
}
this.internalTaskScheduler = false;
this.taskScheduler = taskScheduler;
}

/**
 * @return a reference to the underlying [ @link RabbitTemplate]'s
 * [ @link MessageConverter ].
 */
public MessageConverter getMessageConverter() {
return this.template.getMessageConverter();
}

/**
 * Send a message to the default exchange with the default routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param message the message.
 * @return the [ @link RabbitMessageFuture ].
 */
public RabbitMessageFuture sendAndReceive(Message message) {
return sendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message);
}

/**
 * Send a message to the default exchange with the supplied routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param routingKey the routing key.
 * @param message the message.
 * @return the [ @link RabbitMessageFuture ].
 */
public RabbitMessageFuture sendAndReceive(String routingKey, Message message) {
return sendAndReceive(this.template.getExchange(), routingKey, message);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * default routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the [ @link RabbitConverterFuture ].
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message) {
return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, null);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * provided routing key.
 * @param routingKey the routing key.
 * @param <C> the expected result type.
 * @return the [ @link RabbitConverterFuture ].
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message, String routingKey) {
return convertSendAndReceive(this.template.getExchange(), routingKey, message, null);
}
**public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message) throws AmqpException {**
return convertSendAndReceive(this.template.getExchange(), routingKey, message, null);
}

/**
 * Convert the object to a message and send it to the provided exchange and routing key.
 * @param exchange the exchange.
 * @param routingKey the routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message) {
return convertSendAndReceive(exchange, routingKey, message, null);
}

/**
 * Convert the object to a message and send it to the default exchange with the default routing key after invoking the {@link MessagePostProcessor}.
 * If the post processor adds a correlationId property, it must be unique.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message,
MessagePostProcessor messagePostProcessor) {
return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message,
messagePostProcessor);
}

/**
 * Convert the object to a message and send it to the default exchange with the provided routing key after invoking the {@link MessagePostProcessor}.
 * If the post processor adds a correlationId property, it must be unique.
 * @param routingKey the routing key.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message,
        MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, messagePostProcessor);
}

/**
 * Send a message to the supplied exchange and routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param exchange the exchange.
 * @param routingKey the routing key.
 * @param message the message.
 * @return the @link RabbitMessageFuture).
 */
public RabbitMessageFuture sendAndReceive(String exchange, String routingKey, Message message) {
    String correlationId = getOrSetCorrelationIdAndSetReplyTo(message);
    RabbitMessageFuture future = new RabbitMessageFuture(correlationId, message);
    CorrelationData correlationData = null;
    if (this.enableConfirms) {
        correlationData = new CorrelationData(correlationId);
        future.setConfirm(new SettableListenableFuture<Boolean>());
    }
    this.pending.put(correlationId, future);
    this.template.send(exchange, routingKey, message, correlationData);
    return future;
}

/**
 * Convert the object to a message and send it to the provided exchange and
 * routing key after invoking the @link MessagePostProcessor}.
 * If the post processor adds a correlationId property, it must be unique.
 * @param exchange the exchange
 * @param routingKey the routing key.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @return the @link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object
        message,
        MessagePostProcessor messagePostProcessor) {
    AsyncCorrelationData<C> correlationData = new AsyncCorrelationData<C>(messagePostProcessor,
        this.enableConfirms);
    this.template.convertAndSend(exchange, routingKey, message, this.messagePostProcessor, correlationData);
    return correlationData.future;
}

@Override
public synchronized void start() {

if (!this.running) {
    if (this.internalTaskScheduler) {
        ThreadPoolTaskScheduler scheduler = new ThreadPoolTaskScheduler();
        scheduler.setThreadNamePrefix(getBeanName() == null ? "asyncTemplate-" : (getBeanName() + "+"));
        scheduler.afterPropertiesSet();
        this.taskScheduler = scheduler;
    }
    this.container.start();
    this.running = true;
}

@Override
public synchronized void stop() {
    if (this.running) {
        this.container.stop();
        for (RabbitFuture<?> future : this.pending.values()) {
            future.setNackCause("AsyncRabbitTemplate was stopped while waiting for reply");
            future.cancel(true);
        }
        if (this.internalTaskScheduler) {
            ((ThreadPoolTaskScheduler) this.taskScheduler).destroy();
            this.taskScheduler = null;
        }
        this.running = false;
    }
}

@Override
public boolean isRunning() {
    return this.running;
}

@Override
public int getPhase() {
    return this.phase;
}

@Override
public boolean isAutoStartup() {
    return this.autoStartup;
}

@Override
public void stop(Runnable callback) {
    stop();
    callback.run();
}
@SuppressWarnings("unchecked")
@Override
public void onMessage(Message message) {
    MessageProperties messageProperties = message.getMessageProperties();
    if (messageProperties != null) {
        @SuppressWarnings("deprecation")
        byte[] correlationId = messageProperties.getCorrelationId();
        if (correlationId != null) {
            if (this.logger.isDebugEnabled()) {
                this.logger.debug("onMessage: " + message);
            }
            RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
            if (future != null) {
                if (future instanceof AsyncRabbitTemplate.RabbitConverterFuture) {
                    Object converted = this.template.getMessageConverter().fromMessage(message);
                    ((RabbitConverterFuture<Object>) future).set(converted);
                } else {
                    ((RabbitMessageFuture) future).set(message);
                }
            } else {
                if (this.logger.isWarnEnabled()) {
                    this.logger.warn("No pending reply - perhaps timed out: " + message);
                }
            }
        }
    }
}

@Override
public void returnedMessage(Message message, int replyCode, String replyText, String exchange, String routingKey) {
    MessageProperties messageProperties = message.getMessageProperties();
    @SuppressWarnings("deprecation")
    byte[] correlationId = messageProperties.getCorrelationId();
    if (correlationId != null) {
        RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
        if (future != null) {
            future.setException(new AmqpMessageReturnedException("Message returned", message, replyCode, replyText, exchange, routingKey));
        }
    }
}

@Override
public void confirm(CorrelationData correlationData, boolean ack, String cause) {
if (this.logger.isDebugEnabled()) {
this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
+ (cause == null ? "" : (", cause: " + cause)));
}
String correlationId = correlationData.getId();
if (correlationId != null) {
RabbitFuture<?> future = this.pending.get(correlationId);
if (future != null) {
future.setNackCause(cause);
((SettableListenableFuture<Boolean>) future.getConfirm()).set(ack);
} else {
if (this.logger.isDebugEnabled()) {
this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
+ (cause == null ? "" : (", cause: " + cause))
+ " no pending future - either canceled or the reply is already received");
}
}
}

@SuppressWarnings("deprecation")
private String getOrSetCorrelationIdAndSetReplyTo(Message message) {
String correlationId;
MessageProperties messageProperties = message.getMessageProperties();
Assert.notNull(messageProperties, "the message properties cannot be null");
byte[] currentCorrelationId = messageProperties.getCorrelationId();
if (currentCorrelationId == null) {
correlationId = UUID.randomUUID().toString();
messageProperties.setCorrelationId(correlationId.getBytes(this.charset));
Assert.isNull(messageProperties.getReplyTo(), "'replyTo' property must be null");
} else {
correlationId = new String(currentCorrelationId, this.charset);
}
messageProperties.setReplyTo(this.replyAddress);
return correlationId;
}

@Override
public String toString() {
return this.beanName == null ? super.toString() : (this.getClass().getSimpleName() + ": " + this.beanName);
}

/**
 * Base class for [@link ListenableFuture]s returned by [@link AsyncRabbitTemplate].
 * @since 1.6
 */
public abstract class RabbitFuture<T> extends SettableListenableFuture<T> {

private final String correlationId;

private final Message requestMessage;

private final ScheduledFuture<?> cancelTask;

private volatile ListenableFuture<Boolean> confirm;

private String nackCause;

public RabbitFuture(String correlationId, Message requestMessage) {
    this.correlationId = correlationId;
    this.requestMessage = requestMessage;
    if (AsyncRabbitTemplate.this.receiveTimeout > 0) {
        synchronized (AsyncRabbitTemplate.this) {
            if (!AsyncRabbitTemplate.this.running) {
                AsyncRabbitTemplate.this.pending.remove(this.correlationId);
                throw new IllegalStateException("'AsyncRabbitTemplate' must be started.");
            }
            this.cancelTask = AsyncRabbitTemplate.this.taskScheduler.schedule(new CancelTask(),
                        new Date(System.currentTimeMillis() + AsyncRabbitTemplate.this.receiveTimeout));
        }
    } else {
        this.cancelTask = null;
    }
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    if (this.cancelTask != null) {
        this.cancelTask.cancel(true);
    }
    AsyncRabbitTemplate.this.pending.remove(this.correlationId);
    return super.cancel(mayInterruptIfRunning);
}

/**
 * When confirms are enabled contains a [ @link ListenableFuture ]
 * for the confirmation.
 * @return the future.
 */
public ListenableFuture<Boolean> getConfirm() {
    return this.confirm;
}
void setConfirm(ListenableFuture<Boolean> confirm) {
    this.confirm = confirm;
}

/**
* When confirms are enabled and a nack is received, contains
* the cause for the nack, if any.
* @return the cause.
*/
public String getNackCause() {
    return this.nackCause;
}

void setNackCause(String nackCause) {
    this.nackCause = nackCause;
}

private class CancelTask implements Runnable {
    @Override
    public void run() {
        AsyncRabbitTemplate.this.pending.remove(RabbitFuture.this.correlationId);
        setException(new AmqpReplyTimeoutException("Reply timed out", RabbitFuture.this.requestMessage));
    }
}

/**
* A {@link RabbitFuture} with a return type of {@link Message}.
* @since 1.6
*/
public class RabbitMessageFuture extends RabbitFuture<Message> {
    public RabbitMessageFuture(String correlationId, Message requestMessage) {
        super(correlationId, requestMessage);
    }
}

/**
* A {@link RabbitFuture} with a return type of the template's
* generic parameter.
* @since 1.6
*/
public class RabbitConverterFuture<C> extends RabbitFuture<C> {
public RabbitConverterFuture(String correlationId, Message requestMessage) {
    super(correlationId, requestMessage);
}

private final class CorrelationMessagePostProcessor<C> implements CorrelationAwareMessagePostProcessor {

    CorrelationMessagePostProcessor() {
        super();
    }

    @Override
    public Message postProcessMessage(Message message) throws AmqpException {
        throw new UnsupportedOperationException();
    }

    @SuppressWarnings("unchecked")
    @Override
    public Message postProcessMessage(Message message, Correlation correlation) throws AmqpException {
        Message messageToSend = message;
        AsyncCorrelationData<C> correlationData = (AsyncCorrelationData<C>) correlation;
        if (correlationData.userPostProcessor != null) {
            messageToSend = correlationData.userPostProcessor.postProcessMessage(message);
        }
        String correlationId = getOrSetCorrelationIdAndSetReplyTo(messageToSend);
        correlationData.future = new RabbitConverterFuture<C>(correlationId, message);
        if (correlationData.enableConfirms && correlationData.getId() == null) {
            correlationData.setId(correlationId);
            correlationData.future.setConfirm(new SettableListenableFuture<Boolean>());
        }
        AsyncRabbitTemplate.this.pending.put(correlationId, correlationData.future);
        return messageToSend;
    }
}

private static class AsyncCorrelationData<C> extends CorrelationData {

    private final MessagePostProcessor userPostProcessor;

    private final boolean enableConfirms;

    private volatile RabbitConverterFuture<C> future;

    AsyncCorrelationData(MessagePostProcessor userPostProcessor, boolean enableConfirms) {
        this.userPostProcessor = userPostProcessor;
        this.enableConfirms = enableConfirms;
    }
1.189 security-provider 1.3.0

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1.192 spring-data-commons-core 1.4.1

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1.194 jcl-over-slf4j 1.7.25

1.195 spring-boot-starter 2.0.3

1.196 json-java 20131018

1.197 spring-context 5.2.5

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata<br></li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0
<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement <code>{@link Replaceable}</code> in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.204 activiti-simple-workflow 5.22.0

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1.209 jcl-over-slf4j 1.7.26

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache
The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.212 hsql-db 2.4.0

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1.213 spring-data-commons 1.13.20

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1.220 spring-data-mongodb 1.10.10
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 */
import org.springframework.data.authentication.UserCredentials;

/**
 * Exception being thrown in case we cannot connect to a MongoDB instance.
 *
 * @author Oliver Gierke
 */
public class CannotGetMongoDbConnectionException extends DataAccessResourceFailureException {

    private final UserCredentials credentials;
    private final String database;
    private static final long serialVersionUID = 1172099106475265589L;

    public CannotGetMongoDbConnectionException(String msg, Throwable cause) {
        super(msg, cause);
        this.database = null;
        this.credentials = UserCredentials.NO_CREDENTIALS;
    }

    public CannotGetMongoDbConnectionException(String msg) {
        this(msg, null, UserCredentials.NO_CREDENTIALS);
    }

    public CannotGetMongoDbConnectionException(String msg, String database, UserCredentials credentials) {
        super(msg);
        this.database = database;
        this.credentials = credentials;
    }

    /**
     * Returns the {@link UserCredentials} that were used when trying to connect to the MongoDB instance.
     *
     * @return
     */
    public UserCredentials getCredentials() {
        return this.credentials;
    }
/**
 * Returns the name of the database trying to be accessed.
 *
 * @return
 */

public String getDatabase() {
    return database;
}

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1.221 hibernate-validator-annotation-processor 6.1.2

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1.222 spring-ws-core 2.4.5

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package org.springframework.ws.server;

import org.springframework.ws.context.MessageContext;

/**
 * Extension of the {@link EndpointInterceptor} interface that adds a way to
 * decide whether the interceptor should intercept a given message context.
 * @author Arjen Poutsma
 * @since 2.0
 */
public interface SmartEndpointInterceptor extends EndpointInterceptor {

/**
 * Indicates whether this interceptor should intercept the given message context.
 * @param messageContext contains the incoming request message
 * @param endpoint chosen endpoint to invoke
 * @return [ @code true ] to indicate that this interceptor applies; [ @code false ] otherwise
 */
boolean shouldIntercept(MessageContext messageContext, Object endpoint);

}
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 */

package org.springframework.jdbc;

import java.sql.SQLException;
import org.springframework.dao.InvalidDataAccessResourceUsageException;

import org.springframework.jdbc.InvalidResultSetAccessException;

/*
 * Exception thrown when SQL specified is invalid. Such exceptions always have
 * a { @code java.sql.SQLException} root cause.
 * <p>It would be possible to have subclasses for no such table, no such column etc.
 * A custom SQLExceptionTranslator could create such more specific exceptions,
 * without affecting code using this class.
 * @author Rod Johnson
 * @see InvalidResultSetAccessException
 */
@SuppressWarnings("serial")
public class BadSqlGrammarException extends InvalidDataAccessResourceUsageException {

private String sql;

/**
 * Constructor for BadSqlGrammarException.
 * @param task name of current task
 * @param sql the offending SQL statement
 * @param ex the root cause
 */
public BadSqlGrammarException(String task, String sql, SQLException ex) {
super(task + "; bad SQL grammar [" + sql + "]", ex);
this.sql = sql;
}

/**
 * Return the wrapped SQLException.
 */
public SQLException getSQLException() {
return (SQLException) getCause();
}

/**
 * Return the SQL that caused the problem.
 */
public String getSql() {
return this.sql;
}

}

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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file name: UBiDiProps.java
encoding: US-ASCII
tab size:  8 (not used)
indentation:4

created on: 2005jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/c.
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<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.
Note: This class does not support attributes and is not intended for general use. Most clients will need to implement \{ @link Replaceable \} in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.226 netty-transport 4.1.47

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1.227 json-simple 1.1.1

1.228 client 1.0.0-beta.2
1.229 hibernate-commons-annotations 4.0.1

1.230 spring-rabbit 1.7.6
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 */

package org.springframework.amqp.rabbit;

import java.nio.charset.Charset;
import java.util.Date;
import java.util.UUID;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ScheduledFuture;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.amqp.AmqpException;
import org.springframework.amqp.core.AmqpMessageReturnedException;
import org.springframework.amqp.core.AmqpReplyTimeoutException;
import org.springframework.amqp.core.CorrelationAwareMessagePostProcessor;
import org.springframework.amqp.core.Message;
import org.springframework.amqp.core.MessageListener;
import org.springframework.amqp.core.MessagePostProcessor;
import org.springframework.amqp.core.MessageProperties;
import org.springframework.amqp.rabbit.connection.ConnectionFactory;
import org.springframework.amqp.rabbit.core.RabbitTemplate;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ConfirmCallback;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ReturnCallback;
import org.springframework.amqp.rabbit.listener.SimpleMessageListenerContainer;
import org.springframework.amqp.rabbit.support.CorrelationData;
import org.springframework.amqp.rabbit.support.Correlation;
import org.springframework.support.converter.MessageConverter;
import org.springframework.beans.factory.BeanNameAware;
import org.springframework.context.SmartLifecycle;
import org.springframework.scheduling.TaskScheduler;
import org.springframework.scheduling.concurrent.ThreadPoolTaskScheduler;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.SettableListenableFuture;

/**
 * Provides asynchronous send and receive operations returning a [%tag ListenableFuture]
 * allowing the caller to obtain the reply later, using [%tag get()] or a callback.
 * <p>
 * When confirms are enabled, the future has a confirm property which is itself a
 * [%tag ListenableFuture]. If the reply is received before the publisher confirm,
 * the confirm is discarded since the reply implicitly indicates the message was
 * published.
 * <p>
 * Returned (undeliverable) request messages are presented as a
 * [%tag AmqpMessageReturnedException] cause of an [%tag ExecutionException].
 * <p>
 * Internally, the template uses a [%tag RabbitTemplate] and a
 * [%tag SimpleMessageListenerContainer] either provided or constructed internally.
 * If an external [%tag RabbitTemplate] is provided and confirms/returns are enabled,
 * it must not previously have had callbacks registered because this object needs to
 * be the callback.
 * <p>
 * [%author Gary Russell]
 * [%since 1.6]
 */

public class AsyncRabbitTemplate implements SmartLifecycle, MessageListener, ReturnCallback,
ConfirmCallback,
BeanNameAware {

    public static final int DEFAULT_RECEIVE_TIMEOUT = 30000;

    private final Log logger = LogFactory.getLog(this.getClass());

    private final RabbitTemplate template;

    private final SimpleMessageListenerContainer container;

private final String replyAddress;

@SuppressWarnings("rawtypes")
private final ConcurrentHashMap<String, RabbitFuture> pending = new ConcurrentHashMap<String, RabbitFuture>();

@SuppressWarnings("rawtypes")
private final CorrelationMessagePostProcessor messagePostProcessor = new CorrelationMessagePostProcessor();

private volatile boolean running;

private volatile boolean enableConfirms;

private volatile long receiveTimeout = DEFAULT_RECEIVE_TIMEOUT;

private int phase;

private boolean autoStartup = true;

private Charset charset = Charset.forName("UTF-8");

private String beanName;

private TaskScheduler taskScheduler;

private boolean internalTaskScheduler = true;

/**
 * Construct an instance using the provided arguments. Replies will be
 * routed to the default exchange using the reply queue name as the routing
 * key.
 * @param connectionFactory the connection factory.
 * @param exchange the default exchange to which requests will be sent.
 * @param routingKey the default routing key.
 * @param replyQueue the name of the reply queue to listen for replies.
 * @param replyAddress the name of the reply queue to listen for replies.
 */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey,
       String replyQueue) {
    this(connectionFactory, exchange, routingKey, replyQueue, null);
}

/**
 * Construct an instance using the provided arguments. If 'replyAddress' is null,
 * replies will be routed to the default exchange using the reply queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param connectionFactory the connection factory.
 * @param exchange the default exchange to which requests will be sent.
 */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey, String replyQueue, String replyAddress) {
    Assert.notNull(connectionFactory, "'connectionFactory' cannot be null");
    Assert.notNull(routingKey, "'routingKey' cannot be null");
    Assert.notNull(replyQueue, "'replyQueue' cannot be null");
    this.template = new RabbitTemplate(connectionFactory);
    this.template.setExchange(exchange == null ? "" : exchange);
    this.template.setRoutingKey(routingKey);
    this.container = new SimpleMessageListenerContainer(connectionFactory);
    this.container.setQueueNames(replyQueue);
    this.container.setMessageListener(this);
    this.container.afterPropertiesSet();
    if (replyAddress == null) {
        this.replyAddress = replyQueue;
    } else {
        this.replyAddress = replyAddress;
    }
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. Replies will be
 * routed using the default exchange with that queue name as the routing key.
 * @param template a {@link RabbitTemplate}
 * @param container a {@link SimpleMessageListenerContainer}.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container) {
    this(template, container, null);
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. If 'replyAddress' is
 * null, replies will be routed using the default exchange with that queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param template a {@link RabbitTemplate}.
 * @param container a [{@link SimpleMessageListenerContainer}].
 * @param replyAddress the reply address.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container, String replyAddress) {

Assert.notNull(template, "'template' cannot be null");
Assert.notNull(container, "'container' cannot be null");
this.template = template;
this.container = container;
this.container.setMessageListener(this);
if (replyAddress == null) {
    this.replyAddress = container.getQueueNames()[0];
} else {
    this.replyAddress = replyAddress;
}

/**
 * @param autoStartup true for auto start.
 * @see #isAutoStartup()
 */
public void setAutoStartup(boolean autoStartup) {
    this.autoStartup = autoStartup;
}

/**
 * @param phase the phase.
 * @see #getPhase()
 */
public void setPhase(int phase) {
    this.phase = phase;
}

/**
 * Set to true to enable the receipt of returned messages that cannot be delivered
 * in the form of a [link AmqpMessageReturnedException].
 * @param mandatory true to enable returns.
 */
public void setMandatory(boolean mandatory) {
    if (mandatory) {
        this.template.setReturnCallback(this);
    }
    this.template.setMandatory(mandatory);
}

/**
 * Set to true to enable publisher confirms. When enabled, the [link RabbitFuture]
 * returned by the send and receive operation will have a
 * @param enableConfirms true to enable publisher confirms.
 */
public void setEnableConfirms(boolean enableConfirms) {
this.enableConfirms = enableConfirms;
if (enableConfirms) {
    this.template.setConfirmCallback(this);
}
}

/**
 * Set the charset to be used when converting byte[] to/from String for
 * @param charset the charset.
 * @deprecated - will be removed in 2.0 when byte[] correlation id is removed
 */
@Deprecated
public void setCharset(Charset charset) {
    this.charset = charset;
}

public String getBeanName() {
    return this.beanName;
}

@Override
public void setBeanName(String beanName) {
    this.beanName = beanName;
}

/**
 * @return a reference to the underlying connection factory in the
 * {@link RabbitTemplate}.
 */
public ConnectionFactory getConnectionFactory() {
    return this.template.getConnectionFactory();
}

/**
 * Set the receive timeout - the future returned by the send and receive
 * methods will be canceled when this timeout expires. { @code <= 0} means
 * futures never expire. Beware that this will cause a memory leak if a
 * reply is not received. Default: 30000 (30 seconds).
 * @param receiveTimeout the timeout in milliseconds.
 */
public void setReceiveTimeout(long receiveTimeout) {
    this.receiveTimeout = receiveTimeout;
}

/**
 * Set the task scheduler to expire timed out futures.
 * @param taskScheduler the task scheduler
public synchronized void setTaskScheduler(TaskScheduler taskScheduler) {
    Assert.notNull(taskScheduler, "'taskScheduler' cannot be null");
    this.internalTaskScheduler = false;
    this.taskScheduler = taskScheduler;
}

public MessageConverter getMessageConverter() {
    return this.template.getMessageConverter();
}

public RabbitMessageFuture sendAndReceive(Message message) {
    return sendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message);
}

public RabbitMessageFuture sendAndReceive(String routingKey, Message message) {
    return sendAndReceive(this.template.getExchange(), routingKey, message);
}

public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message) {
    return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, null);
}
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message)
{ return convertSendAndReceive(exchange, routingKey, message, null); }

/**
 * Convert the object to a message and send it to the default exchange with the 
 * provided routing key.
 * @param routingKey the routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the [link RabbitConverterFuture].
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message, 
MessagePostProcessor messagePostProcessor) 
{ return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, 
messagePostProcessor); }

/**
 * Convert the object to a message and send it to the default exchange with the 
 * default routing key after invoking the [link MessagePostProcessor]. 
 * If the post processor adds a correlationId property, it must be unique.
 * @param message the message. 
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the [link RabbitConverterFuture].
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message, 
MessagePostProcessor messagePostProcessor) 
{ return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, 
messagePostProcessor); }

/**
 * Convert the object to a message and send it to the default exchange with the 
 * provided routing key after invoking the [link MessagePostProcessor]. 
 * If the post processor adds a correlationId property, it must be unique.
 * @param routingKey the routing key.
 * @param message the message.
 */
/**
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the [ @link RabbitConverterFuture ].
 */

public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message,
MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, messagePostProcessor);
}

/**
 * Send a message to the supplied exchange and routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param exchange the exchange.
 * @param routingKey the routing key.
 * @param message the message.
 * @return the [ @link RabbitMessageFuture ].
 */

public RabbitMessageFuture sendAndReceive(String exchange, String routingKey, Message message) {
    String correlationId = getOrSetCorrelationIdAndSetReplyTo(message);
    RabbitMessageFuture future = new RabbitMessageFuture(correlationId, message);
    CorrelationData correlationData = null;
    if (this.enableConfirms) {
        correlationData = new CorrelationData(correlationId);
        future.setConfirm(new SettableListenableFuture<Boolean>());
    }
    this.pending.put(correlationId, future);
    this.template.send(exchange, routingKey, message, correlationData);
    return future;
}

/**
 * Convert the object to a message and send it to the provided exchange and
 * routing key after invoking the [ @link MessagePostProcessor ].
 * If the post processor adds a correlationId property, it must be unique.
 * @param exchange the exchange
 * @param routingKey the routing key.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the [ @link RabbitConverterFuture ].
 */

public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message,
MessagePostProcessor messagePostProcessor) {
    AsyncCorrelationData<C> correlationData = new AsyncCorrelationData<C>(messagePostProcessor,
    this.enableConfirms);
    this.template.convertAndSend(exchange, routingKey, message, correlationData.future);
public synchronized void start() {
    if (!this.running) {
        if (this.internalTaskScheduler) {
            ThreadPoolTaskScheduler scheduler = new ThreadPoolTaskScheduler();
            scheduler.setThreadNamePrefix(getBeanName() == null ? "asyncTemplate-" : (getBeanName() + "-") + (getBeanName() + "-"));
            scheduler.afterPropertiesSet();
            this.taskScheduler = scheduler;
        }
        this.container.start();
    }
    this.running = true;
}

public synchronized void stop() {
    if (this.running) {
        this.container.stop();
        for (RabbitFuture<?> future : this.pending.values()) {
            future.setNackCause("AsyncRabbitTemplate was stopped while waiting for reply");
            future.cancel(true);
        }
        if (this.internalTaskScheduler) {
            ((ThreadPoolTaskScheduler) this.taskScheduler).destroy();
            this.taskScheduler = null;
        }
    }
    this.running = false;
}

public boolean isRunning() {
    return this.running;
}

public int getPhase() {
    return this.phase;
}

public boolean isAutoStartup() {
    return this.autoStartup;
}

@Override
public void stop(Runnable callback) {
    stop();
    callback.run();
}

@SuppressWarnings("unchecked")
@Override
public void onMessage(Message message) {
    MessageProperties messageProperties = message.getMessageProperties();
    if (messageProperties != null) {
        @SuppressWarnings("deprecation")
        byte[] correlationId = messageProperties.getCorrelationId();
        if (correlationId != null) {
            if (this.logger.isDebugEnabled()) {
                this.logger.debug("onMessage: " + message);
            }
            RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
            if (future != null) {
                if (future instanceof AsyncRabbitTemplate.RabbitConverterFuture) {
                    Object converted = this.template.getMessageConverter().fromMessage(message);
                    ((RabbitConverterFuture<Object>) future).set(converted);
                } else {
                    ((RabbitMessageFuture) future).set(message);
                }
            } else {
                if (this.logger.isWarnEnabled()) {
                    this.logger.warn("No pending reply - perhaps timed out: " + message);
                }
            }
        }
    }
    RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
    if (future != null) {
        if (future instanceof AsyncRabbitTemplate.RabbitConverterFuture) {
            Object converted = this.template.getMessageConverter().fromMessage(message);
            ((RabbitConverterFuture<Object>) future).set(converted);
        } else {
            ((RabbitMessageFuture) future).set(message);
        }
    }
}

@Overrider
public void returnedMessage(Message message, int replyCode, String replyText, String exchange, String routingKey) {
    MessageProperties messageProperties = message.getMessageProperties();
    @SuppressWarnings("deprecation")
    byte[] correlationId = messageProperties.getCorrelationId();
    if (correlationId != null) {
        RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
        if (future != null) {
            future.setException(new AmqpMessageReturnedException("Message returned", message, replyCode, replyText, exchange, routingKey));
        }
    }
}
@Override
public void confirm(CorrelationData correlationData, boolean ack, String cause) {
if (this.logger.isDebugEnabled()) {
this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
+ (cause == null ? "" : ("", cause: " + cause)));
}
String correlationId = correlationData.getId();
if (correlationId != null) {
RabbitFuture<?> future = this.pending.get(correlationId);
if (future != null) {
future.setNackCause(cause);
((SettableListenableFuture< Boolean >) future.getConfirm()).set(ack);
} else {
if (this.logger.isDebugEnabled()) {
this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
+ (cause == null ? "" : ("", cause: " + cause))
+ " no pending future - either canceled or the reply is already received");
}
}
}

@SuppressWarnings("deprecation")
private String getOrSetCorrelationIdAndSetReplyTo(Message message) {
String correlationId;
MessageProperties messageProperties = message.getMessageProperties();
Assert.notNull(messageProperties, "the message properties cannot be null");
byte[] currentCorrelationId = messageProperties.getCorrelationId();
if (currentCorrelationId == null) {
correlationId = UUID.randomUUID().toString();
messageProperties.setCorrelationId(correlationId.getBytes(this.charset));
messageProperties.setReplyTo(this.replyAddress);
} else {
correlationId = new String(currentCorrelationId, this.charset);
}
messageProperties.setReplyTo(this.replyAddress);
return correlationId;
}

@Override
public String toString() {
return this.beanName == null ? super.toString() : (this.getClass().getSimpleName() + ": " + this.beanName);
}
/**
 * Base class for {@link ListenableFuture}s returned by {@link AsyncRabbitTemplate}.
 * @since 1.6
 */
public abstract class RabbitFuture<T> extends SettableListenableFuture<T> {

private final String correlationId;

private final Message requestMessage;

private final ScheduledFuture<?> cancelTask;

private volatile ListenableFuture<Boolean> confirm;

private String nackCause;

public RabbitFuture(String correlationId, Message requestMessage) {
    this.correlationId = correlationId;
    this.requestMessage = requestMessage;
    if (AsyncRabbitTemplate.this.receiveTimeout > 0) {
        synchronized (AsyncRabbitTemplate.this) {
            if (!AsyncRabbitTemplate.this.running) {
                AsyncRabbitTemplate.this.pending.remove(this.correlationId);
                throw new IllegalStateException("'AsyncRabbitTemplate' must be started.");
            }
            this.cancelTask = AsyncRabbitTemplate.this.taskScheduler.schedule(new CancelTask(),
                new Date(System.currentTimeMillis() + AsyncRabbitTemplate.this.receiveTimeout));
        }
    } else {
        this.cancelTask = null;
    }
}

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    if (this.cancelTask != null) {
        this.cancelTask.cancel(true);
    }
    AsyncRabbitTemplate.this.pending.remove(this.correlationId);
    return super.cancel(mayInterruptIfRunning);
}

/**
 * When confirms are enabled contains a {@link ListenableFuture} for the confirmation.
 * @return the future.
 */
public ListenableFuture<Boolean> getConfirm() {
    return this.confirm;
}

void setConfirm(ListenableFuture<Boolean> confirm) {
    this.confirm = confirm;
}

/**
 * When confirms are enabled and a nack is received, contains
 * the cause for the nack, if any.
 * @return the cause.
 */
public String getNackCause() {
    return this.nackCause;
}

void setNackCause(String nackCause) {
    this.nackCause = nackCause;
}

private class CancelTask implements Runnable {

    @Override
    public void run() {
        AsyncRabbitTemplate.this.pending.remove(RabbitFuture.this.correlationId);
        setException(new AmqpReplyTimeoutException("Reply timed out", RabbitFuture.this.requestMessage));
    }
}

/**
 * A {@link RabbitFuture} with a return type of {@link Message}.
 * @since 1.6
 */
public class RabbitMessageFuture extends RabbitFuture<Message> {

    public RabbitMessageFuture(String correlationId, Message requestMessage) {
        super(correlationId, requestMessage);
    }
}

/**
 * A {@link RabbitFuture} with a return type of the template's
 * generic parameter.
 */
public class RabbitConverterFuture<C> extends RabbitFuture<C> {

public RabbitConverterFuture(String correlationId, Message requestMessage) {
    super(correlationId, requestMessage);
}

private final class CorrelationMessagePostProcessor<C> implements CorrelationAwareMessagePostProcessor {

    CorrelationMessagePostProcessor() {
        super();
    }

    @Override
    public Message postProcessMessage(Message message) throws AmqpException {
        throw new UnsupportedOperationException();
    }

    @Override
    @SuppressWarnings("unchecked")
    public Message postProcessMessage(Message message, Correlation correlation) throws AmqpException {
        Message messageToSend = message;
        AsyncCorrelationData<C> correlationData = (AsyncCorrelationData<C>) correlation;
        if (correlationData.userPostProcessor != null) {
            messageToSend = correlationData.userPostProcessor.postProcessMessage(message);
        }
        String correlationId = getOrSetCorrelationIdAndSetReplyTo(messageToSend);
        correlationData.future = new RabbitConverterFuture<C>(correlationId, message);
        if (correlationData.enableConfirms && correlationData.getId() == null) {
            correlationData.setId(correlationId);
            correlationData.future.setConfirm(new SettableListenableFuture<Boolean>());
        }
        AsyncRabbitTemplate.this.pending.put(correlationId, correlationData.future);
        return messageToSend;
    }

    private static class AsyncCorrelationData<C> extends CorrelationData {

        private final MessagePostProcessor userPostProcessor;

        private final boolean enableConfirms;

        private volatile RabbitConverterFuture<C> future;

        private static class AsyncCorrelationData<C> extends CorrelationData {

            private final MessagePostProcessor userPostProcessor;

            private final boolean enableConfirms;

            private volatile RabbitConverterFuture<C> future;
AsyncCorrelationData(MessagePostProcessor userPostProcessor, boolean enableConfirms) {
    this.userPostProcessor = userPostProcessor;
    this.enableConfirms = enableConfirms;
}

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.232 netty-codec 4.1.47

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1.249 spring-web-mvc 5.2.5

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1.250 pax-logging-api 1.10.1

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package org.springframework.orm;

import org.springframework.dao.OptimisticLockingFailureException;

/**
 * Exception thrown on an optimistic locking violation for a mapped object.
 * Provides information about the persistent class and the identifier.
 *
 * @author Juergen Hoeller
 * @since 13.10.2003
 */
@SuppressWarnings("serial")
public class ObjectOptimisticLockingFailureException extends OptimisticLockingFailureException {

    private Object persistentClass;
    private Object identifier;

    /**
     * Create a general ObjectOptimisticLockingFailureException with the given message,
     * without any information on the affected object.
     * @param msg the detail message
     * @param cause the source exception
     */
    public ObjectOptimisticLockingFailureException(String msg, Throwable cause) {
        super(msg, cause);
    }

    /**
     * Create a new ObjectOptimisticLockingFailureException for the given object,
     * with the default "optimistic locking failed" message.
     * @param persistentClass the persistent class
     * @param identifier the ID of the object for which the locking failed
     */
    public ObjectOptimisticLockingFailureException(Class<?> persistentClass, Object identifier) {
        this(persistentClass, identifier, null);
    }

    /**
     * Create a new ObjectOptimisticLockingFailureException for the given object,
     * with the default "optimistic locking failed" message.
     */
}
* @param persistentClass the persistent class
* @param identifier the ID of the object for which the locking failed
* @param cause the source exception
*/
public ObjectOptimisticLockingFailureException(
Class<? super PersistentClass, Object identifier, Throwable cause) {

this(persistentClass, identifier,
"Object of class [" + persistentClass.getName() + "] with identifier [" + identifier + "]: optimistic locking failed", cause);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the given explicit message.
 * @param persistentClass the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param msg the detail message
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(
Class<? super PersistentClass, Object identifier, String msg, Throwable cause) {

super(msg, cause);
this.persistentClass = persistentClass;
this.identifier = identifier;
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the default "optimistic locking failed" message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 */
public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier) {
this(persistentClassName, identifier, null);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the default "optimistic locking failed" message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(
String persistentClassName, Object identifier, Throwable cause) {

this(persistentClassName, identifier,
"Object of class "] + persistentClassName + "] with identifier "] + identifier + "]: optimistic locking failed", cause);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the given explicit message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param msg the detail message
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier, String msg, Throwable cause) {
 super(msg, cause);
 this.persistentClass = persistentClassName;
 this.identifier = identifier;
}

/**
 * Return the persistent class of the object for which the locking failed.
 * If no Class was specified, this method returns null.
 */
public Class<?> getPersistentClass() {
 return (this.persistentClass instanceof Class ? (Class<?>) this.persistentClass : null);
}

/**
 * Return the name of the persistent class of the object for which the locking failed.
 * Will work for both Class objects and String names.
 */
public String getPersistentClassName() {
 if (this.persistentClass instanceof Class) {
 return ((Class<?>) this.persistentClass).getName();
 } return (this.persistentClass != null ? this.persistentClass.toString() : null);
}

/**
 * Return the identifier of the object for which the locking failed.
 */
public Object getIdentifier() {
 return identifier;
}
1.254 istack-commons-tools 3.0.8

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1.279 aspect-j 1.8.13

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1.281 velocity-engine-core 2.1

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1.283 activiti-bpmn-converter 6.0.0

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1.285 ognl 3.2.6

1.286 jetty-util 9.4.15.v20190215

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

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

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**Oracle OpenJDK**

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

* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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/**
 * Runtime wrapper for an authentication exception.
 * @author Gary Russell
 * @since 1.2.1
 */
@SuppressWarnings("serial")
public class AmqpAuthenticationException extends AmqpException {

    public AmqpAuthenticationException(Throwable cause) {
        super(cause);
    }
}

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  */
package org.springframework.security.config;

import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.support.RootBeanDefinition;
import org.springframework.beans.factory.xml.BeanDefinitionParser;
import org.springframework.beans.factory.xml.ParserContext;
import org.springframework.security.config.debug.SecurityDebugBeanFactoryPostProcessor;
import org.w3c.dom.Element;

import org.springframework.beans.factory.xml.BeanDefinitionParser;
import org.springframework.beans.factory.support.RootBeanDefinition;
import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.xml.ParserContext;
import org.springframework.security.config.debug.SecurityDebugBeanFactoryPostProcessor;
import org.w3c.dom.Element;
public class DebugBeanDefinitionParser implements BeanDefinitionParser {
    public BeanDefinition parse(Element element, ParserContext parserContext) {
        RootBeanDefinition debugPP = new RootBeanDefinition(
            SecurityDebugBeanFactoryPostProcessor.class);
        parserContext.getReaderContext().registerWithGeneratedName(debugPP);
        return null;
    }
}

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1.297 postgresql 42.2.5.jre7

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1.298 spring-boot-autoconfigure 2.0.3

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package org.springframework.boot.autoconfigure.velocity;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Velocity view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class VelocityTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.velocity.app.VelocityEngine", classLoader)) {
            String loaderPath = environment.getProperty("org.apache.velocity.view", "classLoader", classLoader));
        }

        // Additional code for isTemplateAvailable method
    }

    public boolean isTemplateAvailable(String view, Environment environment, 
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        // Additional code for isTemplateAvailable method
    }

    // Additional methods and imports
}
"spring.velocity.resourceLoaderPath",
VelocityProperties.DEFAULT_RESOURCE_LOADER_PATH);
String prefix = environment.getProperty("spring.velocity.prefix",
VelocityProperties.DEFAULT_PREFIX);
String suffix = environment.getProperty("spring.velocity.suffix",
VelocityProperties.DEFAULT_SUFFIX);
return resourceLoader.getResource(loaderPath + prefix + view + suffix)
.exists();
}
return false;
}
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package org.springframework.boot.autoconfigure.thymeleaf;
import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * [@link TemplateAvailabilityProvider] that provides availability information for
 * Thymeleaf view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class ThymeleafTemplateAvailabilityProvider implements
TemplateAvailabilityProvider {

@Override
public boolean isTemplateAvailable(String view, Environment environment,
ClassLoader classLoader, ResourceLoader resourceLoader) {
    if (ClassUtils.isPresent("org.thymeleaf.spring4.SpringTemplateEngine", classLoader)) {
        String prefix = environment.getProperty("spring.thymeleaf.prefix", ThymeleafProperties.DEFAULT_PREFIX);
        String suffix = environment.getProperty("spring.thymeleaf.suffix", ThymeleafProperties.DEFAULT_SUFFIX);
        return resourceLoader.getResource(prefix + view + suffix).exists();
    }
    return false;
}

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package org.springframework.boot.autoconfigure.groovy.template;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * [ @link TemplateAvailabilityProvider] that provides availability information for Groovy
 * view templates
 *
 * @author Dave Syer
 * @since 1.1.0
 */
public class GroovyTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment, ClassLoader classLoader, ResourceLoader resourceLoader) {

if (ClassUtils.isPresent("groovy.text.TemplateEngine", classLoader)) {
    String prefix = environment.getProperty("spring.groovy.template.prefix",
            GroovyTemplateProperties.DEFAULT_PREFIX);
    String suffix = environment.getProperty("spring.groovy.template.suffix",
            GroovyTemplateProperties.DEFAULT_SUFFIX);
    return resourceLoader.getResource(prefix + view + suffix).exists();
} return false;
}

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package org.springframework.boot.autoconfigure.groovy.template;

import java.util.HashMap;
import java.util.Map;
import org.springframework.boot.autoconfigure.template.AbstractViewResolverProperties;
import org.springframework.boot.context.properties.ConfigurationProperties;

/**
 * @link ConfigurationProperties} for configuring Groovy templates.
 *
 * @author Dave Syer
 * @since 1.1.0
 */
@ConfigurationProperties(prefix = "spring.groovy.template", ignoreUnknownFields = false)
public class GroovyTemplateProperties extends AbstractViewResolverProperties {

    public static final String DEFAULT_PREFIX = "classpath:/templates/";
    public static final String DEFAULT_SUFFIX = ".tpl";

    public static final String DEFAULT_PREFIX = "classpath:/templates/";
    public static final String DEFAULT_SUFFIX = ".tpl";

    public static final String DEFAULT_PREFIX = "classpath:/templates/";
    public static final String DEFAULT_SUFFIX = ".tpl";

    public static final String DEFAULT_PREFIX = "classpath:/templates/";
    public static final String DEFAULT_SUFFIX = ".tpl";
/**
 * Prefix that gets prepended to view names when building a URL.
 */
private String prefix = DEFAULT_PREFIX;

/**
 * Suffix that gets appended to view names when building a URL.
 */
private String suffix = DEFAULT_SUFFIX;

/**
 * Configuration to pass to TemplateConfiguration.
 */
private Map<String, Object> configuration = new HashMap<String, Object>();

public String getPrefix() {
    return this.prefix;
}

public void setPrefix(String prefix) {
    this.prefix = prefix;
}

public String getSuffix() {
    return this.suffix;
}

public void setSuffix(String suffix) {
    this.suffix = suffix;
}

public void setConfiguration(Map<String, Object> configuration) {
    this.configuration = configuration;
}

public Map<String, Object> getConfiguration() {
    return this.configuration;
}

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package org.springframework.boot.autoconfigure.template;

import java.io.IOException;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.util.Assert;

/**
 * Contains a location that templates can be loaded from.
 * @author Phillip Webb
 * @since 1.2.1
 */
public class TemplateLocation {

    private final String path;

    public TemplateLocation(String path) {
        Assert.notNull(path, "Path must not be null");
        this.path = path;
    }

    /**
     * Determine if this template location exists using the specified
     * <code>ResourcePatternResolver</code>.  
     * @param resolver the resolver used to test if the location exists
     * @return <code>true</code> if the location exists.
     */
    public boolean exists(ResourcePatternResolver resolver) {
        Assert.notNull(resolver, "Resolver must not be null");
        if (anyExists(resolver)) {
            return true;
        }
        try {
            if (resolver.getResource(this.path).exists()) {
                return true;
            }
        } finally {
            resolver.close();
        }
        return false;
    }

    private boolean anyExists(ResourcePatternResolver resolver) {
        return exists(resolver) ||
                exists(resolver, this.path, resolver.getClass().getName() + ".exists()");
    }
}


catch (IOException ex) {
}
return false;
}

private boolean anyExists(ResourcePatternResolver resolver) throws IOException {
String searchPath = this.path;
if (searchPath.startsWith(ResourceLoader.CLASSPATH_URL_PREFIX)) {
    searchPath = ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX + searchPath.substring(ResourceLoader.CLASSPATH_URL_PREFIX.length());
}
if (searchPath.startsWith(ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX)) {
    Resource[] resources = resolver.getResources(searchPath);
    for (Resource resource : resources) {
        if (resource.exists()) {
            return true;
        }
    }
}
return false;
}

@Override
public String toString() {
return this.path;
}
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package org.springframework.boot.autoconfigure.web;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;

import org.springframework.boot.autoconfigure.web.

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * [@link TemplateAvailabilityProvider] that provides availability information for JSP
 * view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class JspTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
            ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.jasper.compiler.JspConfig", classLoader)) {
            String prefix = environment.getProperty("spring.view.prefix",
                WebMvcAutoConfiguration.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.view.suffix",
                WebMvcAutoConfiguration.DEFAULT_SUFFIX);
            return resourceLoader.getResource(prefix + view + suffix).exists();
        }
        return false;
    }
}

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package org.springframework.boot.autoconfigure.freemarker;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.boot.autoconfigure.core.env.Environment;
import org.springframework.boot.autoconfigure.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;
/**
 * {@link TemplateAvailabilityProvider} that provides availability information for FreeMarker view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */

public class FreeMarkerTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment, ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("freemarker.template.Configuration", classLoader)) {
            String loaderPath = environment.getProperty("spring.freemarker.path", FreeMarkerProperties.DEFAULT_TEMPLATE_LOADER_PATH);
            String prefix = environment.getProperty("spring.freemarker.prefix", FreeMarkerProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.freemarker.suffix", FreeMarkerProperties.DEFAULT_SUFFIX);
            return resourceLoader.getResource(loaderPath + prefix + view + suffix) .exists();
        }
        return false;
    }

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    */

import groovy.text.markup.MarkupTemplateEngine;
import groovy.text.markup.TemplateConfiguration;
import groovy.text.markup.TemplateResolver;
import java.io.IOException;
import java.net.URL;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;
/**
* A custom {@link groovy.text.markup.TemplateResolver template resolver} which resolves
* templates using the locale found in the thread locale. This resolver ignores the
* template engine configuration locale.
*
* @author Cdric Champeau
* @since 1.1.0
* @deprecated since 1.2 in favor of Spring 4.1's {@link GroovyMarkupViewResolver} and
* {@link GroovyMarkupConfigurer}.
*/
@Deprecated
public class GroovyTemplateResolver implements TemplateResolver {
private ClassLoader templateClassLoader;
@Override
public void configure(final ClassLoader templateClassLoader,
final TemplateConfiguration configuration) {
this.templateClassLoader = templateClassLoader;
}
@Override
public URL resolveTemplate(final String templatePath) throws IOException {
.parse(templatePath);
URL resource = this.templateClassLoader.getResource(templateResource.withLocale(
LocaleContextHolder.getLocale().toString().replace("-", "_")).toString());
if (resource == null) {
// no resource found with the default locale, try without any locale
resource = this.templateClassLoader.getResource(templateResource.withLocale(
null).toString());
}
if (resource == null) {
throw new IOException("Unable to load template:" + templatePath);
}
return resource;
}
}

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1.300 spring-data-mongodb 2.0.8

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package org.springframework.orm.jpa.domain;

import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {

@Id
private int id;

private String serial_number;

protected DriversLicense() {
}

public DriversLicense(String serialNumber) {
    this.serial_number = serialNumber;
}

public String getSerialNumber() {
    return serial_number;
}
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD//EN" "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping auto-import="true" default-lazy="false">
    <class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
        <id name="id" column="id">
            <generator class="identity" />
        </id>
        <property name="number" column="license_number" />
    </class>
</hibernate-mapping>

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That's all there is to it!
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/**
 * DriversLicense POJO.
 *
 * @author Sam Brannen
 * @since 3.0
 */

public class DriversLicense {

private Long id;

private Long number;

public DriversLicense() {
}

public DriversLicense(Long number) {
    this(null, number);
}

public DriversLicense(Long id, Long number) {
    this.id = id;
    this.number = number;
}

public Long getId() {
    return this.id;
}

protected void setId(Long id) {

this.id = id;
}

public Long getNumber() {
return this.number;
}

public void setNumber(Long number) {
this.number = number;
}


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1.309 codemodel 2.3.2

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1.314 aspect-j 1.8.14

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

------

MortBay

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

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

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

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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 */

package org.springframework.web.servlet;
* Provides additional information about a View such as whether it performs redirects.
*
* @author Rossen Stoyanchev
* @since 3.1
*/

public interface SmartView extends View {

/**
 * Whether the view performs a redirect.
 */

boolean isRedirectView();

}

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1.330 websocket-client 9.2.7.v20150116

1.331 activiti-bpmn-model 5.22.0

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package org.springframework.http.converter.protobuf;

import com.google.protobuf.ExtensionRegistry;

/**
 * Google Protocol Messages can contain message extensions that can be parsed if
 * the appropriate configuration has been registered in the [ExtensionRegistry].
 * <p>This interface provides a facility to populate the [ExtensionRegistry].
 * @author Alex Antonov
 * @since 4.1
 * @see <a href="https://developers.google.com/protocol-buffers/docs/reference/java/com/google/protobuf/ExtensionRegistry">com.google.protobuf.ExtensionRegistry</a>
 */

public interface ExtensionRegistryInitializer {
* Initializes the {@code ExtensionRegistry} with Protocol Message extensions.
* @param registry the registry to populate
*/

    void initializeExtensionRegistry(ExtensionRegistry registry);

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# Jackson JSON processor

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

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1.339 dom4j 2.1.1

1.340 spring-integration 2.1.3

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1.341 json-java 2.4

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1.348 spring-boot-starter-log4j2 1.5.20

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1.350 spring-aspects 4.3.23

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1.352 jackson-module-parameter-names

2.10.3

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1.356 spring-boot-starter 1.5.20

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1.360 spring-beans 4.3.23

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package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.UsesJava8;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;

/**
 * A basic ConfigurablePropertyAccessor that provides the necessary infrastructure for all typical use cases.
 *
 * This accessor will convert collection and array values to the corresponding target collections or arrays, if necessary. Custom property editors that deal
* with collections or arrays can either be written via PropertyEditor's
* [ @code setValue ], or against a comma-delimited String via [ @code setAsText ],
* as String arrays are converted in such a format if the array itself is not
* assignable.
*
* @author Juergen Hoeller
* @author Stephane Nicoll
* @author Rod Johnson
* @author Rob Harrop
* @since 4.2
* @see registerCustomEditor
* @see #setPropertyValue
* @see #getPropertyValue
* @see #getPropertyType
* @see BeanWrapper
* @see PropertyEditorRegistrySupport
*/

public abstract class AbstractNestablePropertyAccessor extends AbstractPropertyAccessor {

/**
 * We'll create a lot of these objects, so we don't want a new logger every time.
 */
private static final Log logger = LogFactory.getLog(AbstractNestablePropertyAccessor.class);

private static Class<?> javaUtilOptionalClass = null;

static {
try {
javaUtilOptionalClass =
ClassUtils.forName("java.util.Optional", AbstractNestablePropertyAccessor.class.getClassLoader());
} catch (ClassNotFoundException ex) {
// Java 8 not available - Optional references simply not supported then.
}
}

private int autoGrowCollectionLimit = Integer.MAX_VALUE;

Object wrappedObject;

private String nestedPath = "";

Object rootObject;

/** Map with cached nested Accessors: nested path -> Accessor instance */
private Map<String, AbstractNestablePropertyAccessor> nestedPropertyAccessors;
/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * Registers default editors.
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor() {
    this(true);
}

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * @param registerDefaultEditors whether to register default editors
 * (can be suppressed if the accessor won't need any type conversion)
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor(boolean registerDefaultEditors) {
    if (registerDefaultEditors) {
        registerDefaultEditors();
    }
    this.typeConverterDelegate = new TypeConverterDelegate(this);
}

/**
 * Create a new accessor for the given object.
 * @param object object wrapped by this accessor
 */
protected AbstractNestablePropertyAccessor(Object object) {
    registerDefaultEditors();
    setWrappedInstance(object);
}

/**
 * Create a new accessor, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
protected AbstractNestablePropertyAccessor(Class<?> clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, Object rootObject) {
    registerDefaultEditors();
    setWrappedInstance(object, nestedPath, rootObject);
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param parent the containing accessor (must not be @code null})
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, AbstractNestablePropertyAccessor parent) {
    setWrappedInstance(object, nestedPath, parent.getWrappedInstance());
    setExtractOldValueForEditor(parent.isExtractOldValueForEditor());
    setAutoGrowNestedPaths(parent.isAutoGrowNestedPaths());
    setAutoGrowCollectionLimit(parent.getAutoGrowCollectionLimit());
    setConversionService(parent.getConversionService());
}

/**
 * Specify a limit for array and collection auto-growing.
 * <p>Default is unlimited on a plain accessor.
 */
public void setAutoGrowCollectionLimit(int autoGrowCollectionLimit) {
    this.autoGrowCollectionLimit = autoGrowCollectionLimit;
}

/**
 * Return the limit for array and collection auto-growing.
 */
public int getAutoGrowCollectionLimit() {
    return this.autoGrowCollectionLimit;
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 */
public void setWrappedInstance(Object object) {
    setWrappedInstance(object, "", null);
}

/**
* Switch the target object, replacing the cached introspection results only
* if the class of the new object is different to that of the replaced object.
* @param object the new target object
* @param nestedPath the nested path of the object
* @param rootObject the root object at the top of the path
* @param nestedPath the nested path of the object
* @param rootObject the root object at the top of the path
*/
public void setWrappedInstance(Object object, String nestedPath, Object rootObject) {
    Assert.notNull(object, "Target object must not be null");
    if (object.getClass() == javaUtilOptionalClass) {
        this.wrappedObject = OptionalUnwrapper.unwrap(object);
    } else {
        this.wrappedObject = object;
    }
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!"".equals(this.nestedPath) ? rootObject : this.wrappedObject);
    this.nestedPropertyAccessors = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, this.wrappedObject);
}

public final Object getWrappedInstance() {
    return this.wrappedObject;
}

public final Class<?> getWrappedClass() {
    return (this.wrappedObject != null ? this.wrappedObject.getClass() : null);
}

/**
 * Return the nested path of the object wrapped by this accessor.
 */
public final String getNestedPath() {
    return this.nestedPath;
}

/**
 * Return the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Class<? extends Object> getClass() {
    return (this.wrappedObject != null ? this.wrappedObject.getClass() : null);
}
return (this.rootObject != null ? this.rootObject.getClass() : null);
}

@Override
public void setPropertyValue(String propertyName, Object value) throws BeansException {
  AbstractNestablePropertyAccessor nestedPa;
  try {
    nestedPa = getPropertyAccessorForPropertyPath(propertyName);
  } catch (NotReadablePropertyException ex) {
    throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
          "Nested property in path " + propertyName + " does not exist", ex);
  }
  PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
  nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

@Override
public void setPropertyValue(PropertyValue pv) throws BeansException {
  PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
  if (tokens == null) {
    String propertyName = pv.getName();
    AbstractNestablePropertyAccessor nestedPa;
    try {
      nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    } catch (NotReadablePropertyException ex) {
      throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
            "Nested property in path " + propertyName + " does not exist", ex);
    }
    tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    if (nestedPa == this) {
      pv.getOriginalPropertyValue().resolvedTokens = tokens;
    }
    nestedPa.setPropertyValue(tokens, pv);
  } else {
    setPropertyValue(tokens, pv);
  }
}

protected void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
  if (tokens.keys != null) {
    processKeyedProperty(tokens, pv);
  } else {
    processLocalProperty(tokens, pv);
  }
}
@SuppressWarnings("unchecked")
private void processKeyedProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    Object propValue = getPropertyHoldingValue(tokens);
    String lastKey = tokens.keys[tokens.keys.length - 1];

    if (propValue.getClass().isArray()) {
        PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
        Class<?> requiredType = propValue.getClass().getComponentType();
        int arrayIndex = Integer.parseInt(lastKey);
        Object oldValue = null;
        try {
            if (isExtractOldValueForEditor() & arrayIndex < Array.getLength(propValue)) {
                oldValue = Array.get(propValue, arrayIndex);
            }
            Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
            requiredType, ph.nested(tokens.keys.length));
            int length = Array.getLength(propValue);
            if (arrayIndex >= length & arrayIndex < this.autoGrowCollectionLimit) {
                Class<?> componentType = propValue.getClass().getComponentType();
                Object newArray = Array.newInstance(componentType, arrayIndex + 1);
                System.arraycopy(propValue, 0, newArray, 0, length);
                setPropertyValue(tokens.actualName, newArray);
                propValue = getPropertyValue(tokens.actualName);
            }
            Array.set(propValue, arrayIndex, convertedValue);
        } catch (IndexOutOfBoundsException ex) {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Invalid array index in property path " + tokens.canonicalName + ",", ex);
        }
    } else if (propValue instanceof List) {
        PropertyHandler ph = getPropertyHandler(tokens.actualName);
        Class<?> requiredType = ph.getCollectionType(tokens.keys.length);
        List<Object> list = (List<Object>) propValue;
        int index = Integer.parseInt(lastKey);
        Object oldValue = null;
        if (isExtractOldValueForEditor() & index < list.size()) {
            oldValue = list.get(index);
        }
        Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
        requiredType, ph.nested(tokens.keys.length));
        int size = list.size();
        if (index >= size & index < this.autoGrowCollectionLimit) {
            for (int i = size; i < index; i++) {
                list.add(
            }
        }
    } else {
        PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
        Class<?> requiredType = ph.getPropertyType();
        List<Object> list = (List<Object>) propValue;
        int index = Integer.parseInt(lastKey);
        Object oldValue = null;
        if (isExtractOldValueForEditor() & index < list.size()) {
            oldValue = list.get(index);
        }
        Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
        requiredType, ph.nested(tokens.keys.length));
        int size = list.size();
        if (index >= size & index < this.autoGrowCollectionLimit) {
            for (int i = size; i < index; i++) {
                list.add(
            }
        }
    }
try {
    list.add(null);
}

catch (NullPointerException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
    "Cannot set element with index " + index + " in List of size " +
    size + ", accessed using property path" + tokens.canonicalName +
    ": List does not support filling up gaps with null elements");
}

list.add(convertedValue);

else {
    try {
        list.set(index, convertedValue);
    }
    catch (IndexOutOfBoundsException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
        "Invalid list index in property path" + tokens.canonicalName + ",", ex);
    }
}

else if (propValue instanceof Map) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    Class<?> mapKeyType = ph.getMapKeyType(tokens.keys.length);
    Class<?> mapValueType = ph.getMapValueType(tokens.keys.length);
    Map<Object, Object> map = (Map<Object, Object>) propValue;
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, lastKey, mapKeyType, typeDescriptor);
    Object oldValue = null;
    if (isExtractOldValueForEditor()) {
        oldValue = map.get(convertedMapKey);
    }
    // Pass full property name and old value in here, since we want full
    // conversion ability for map values.
    Object convertedMapValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
    mapValueType, ph.nested(tokens.keys.length));
    map.put(convertedMapKey, convertedMapValue);
}

else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
    "Property referenced in indexed property path" + tokens.canonicalName +
    ") is neither an array nor a List nor a Map; returned value was [" + propValue + "]");
}
private Object getPropertyHoldingValue(PropertyTokenHolder tokens) {
    // Apply indexes and map keys: fetch value for all keys but the last one.
    PropertyTokenHolder getterTokens = new PropertyTokenHolder();
    getterTokens.canonicalName = tokens.canonicalName;
    getterTokens.actualName = tokens.actualName;
    getterTokens.keys = new String[tokens.keys.length - 1];
    System.arraycopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);

    Object propValue;
    try {
        propValue = getPropertyValue(getterTokens);
    } catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
                "Cannot access indexed value in property referenced " +
                "in indexed property path " + tokens.canonicalName + ": return null);)
    }

    if (propValue == null) {
        // null map value case
        if (isAutoGrowNestedPaths()) {
            int lastKeyIndex = tokens.canonicalName.lastIndexOf('[');
            getterTokens.canonicalName = tokens.canonicalName.substring(0, lastKeyIndex);
            propValue = setDefaultValue(getterTokens);
        } else {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
                    "Cannot access indexed value in property referenced " +
                    "in indexed property path " + tokens.canonicalName + ": returned null");
        }
    }

    return propValue;
}

private void processLocalProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null || !ph.isWritable()) {
        if (pv.isOptional()) {
            if (logger.isDebugEnabled()) {
                logger.debug("Ignoring optional value for property "+ tokens.actualName +
                        " - property not found on bean class "+ getRootClass().getName() + ");")
            }
            return;
        } else {
            throw createNotWritablePropertyException(tokens.canonicalName);
        }
    } else {
        logger.debug("Ignoring optional value for property "+ tokens.actualName +
                        " - property not found on bean class "+ getRootClass().getName() + ");")
    }

    return;
} else {
    throw createNotWritablePropertyException(tokens.canonicalName);
Object oldValue = null;
try {
    Object originalValue = pv.getValue();
    Object valueToApply = originalValue;
    if (!Boolean.FALSE.equals(pv.conversionNecessary)) {
        if (pv.isConverted()) {
            valueToApply = pv.getConvertedValue();
        } else {
            if (isExtractOldValueForEditor() && ph.isReadable()) {
                try {
                    oldValue = ph.getValue();
                } catch (Exception ex) {
                    if (ex instanceof PrivilegedActionException) {
                        ex = ((PrivilegedActionException) ex).getException();
                    }
                    if (logger.isDebugEnabled()) {
                        logger.debug("Could not read previous value of property " +
                                    this.nestedPath + tokens.canonicalName + ",", ex);
                    }
                }
                valueToApply = convertForProperty(
                                    tokens.canonicalName, oldValue, originalValue, ph.toTypeDescriptor());
            }
            pv.getOriginalPropertyValue().conversionNecessary = (valueToApply != originalValue);
        }
    }
    ph.setValue(this.wrappedObject, valueToApply);
} catch (TypeMismatchException ex) {
    throw ex;
}
catch (InvocationTargetException ex) {
    PropertyChangeEvent propertyChangeEvent = new PropertyChangeEvent(
                                    this.rootObject, this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
    if (ex.getTargetException() instanceof ClassCastException) {
        throw new TypeMismatchException(propertyChangeEvent, ph.getPropertyType(), ex.getTargetException());
    } else {
        Throwable cause = ex.getTargetException();
        if (cause instanceof UndeclaredThrowableException) {
            // May happen e.g. with Groovy-generated methods
            cause = cause.getCause();
        }
    }
throw new MethodInvocationException(propertyChangeEvent, cause);
}
}
}
catch (Exception ex) {
PropertyChangeEvent pce = new PropertyChangeEvent(
this.rootObject, this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
throw new MethodInvocationException(pce, ex);
}
}

@Override
public Class<?> getPropertyType(String propertyName) throws BeansException {
try {
PropertyHandler ph = getPropertyHandler(propertyName);
if (ph != null) {
return ph.getPropertyType();
}
else {
// Maybe an indexed/mapped property...
Object value = getPropertyValue(propertyName);
if (value != null) {
return value.getClass();
}
// Check to see if there is a custom editor,
// which might give an indication on the desired target type.
Class<?> editorType = guessPropertyTypeFromEditors(propertyName);
if (editorType != null) {
return editorType;
}
}
catch (InvalidPropertyException ex) {
// Consider as not determinable.
}
return null;
}

@Override
public TypeDescriptor getPropertyTypeDescriptor(String propertyName) throws BeansException {
try {
AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
String finalPath = getFinalPath(nestedPa, propertyName);
PropertyTokenHolder tokens = getPropertyNameTokens(finalPath);
PropertyHandler ph = nestedPa.getLocalPropertyHandler(tokens.actualName);
if (ph != null) {
if (tokens.keys != null) {
if (ph.isReadable() || ph.isWritable()) {
return ph.nested(tokens.keys.length);
null);  

@Override  
public boolean isReadableProperty(String propertyName) {  
try {  
PropertyHandler ph = getPropertyHandler(propertyName);  
if (ph != null) {  
return ph.isReadable();  
}  
else {  
// Maybe an indexed/mapped property...  
getPropertyValue(propertyName);  
return true;  
}  
}  
catch (InvalidPropertyException ex) {  
// Cannot be evaluated, so can't be readable.  
return false;  
}  

@Override  
public boolean isWritableProperty(String propertyName) {  
try {  
PropertyHandler ph = getPropertyHandler(propertyName);  
if (ph != null) {  
return ph.isWritable();  
}  
else {  
// Maybe an indexed/mapped property...  
getPropertyValue(propertyName);  
return true;  
}  
}  
catch (InvalidPropertyException ex) {  
// Consider as not determinable.  
return null;  
}
private Object convertIfNecessary(String propertyName, Object oldValue, Object newValue, Class<?> requiredType, TypeDescriptor td) throws TypeMismatchException {
    try {
        return this.typeConverterDelegate.convertIfNecessary(propertyName, oldValue, newValue, requiredType, td);
    } catch (ConverterNotFoundException ex) {
        PropertyChangeEvent pce = new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new ConversionNotSupportedException(pce, td.getType(), ex);
    } catch (ConversionException ex) {
        PropertyChangeEvent pce = new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new TypeMismatchException(pce, requiredType, ex);
    } catch (IllegalStateException ex) {
        PropertyChangeEvent pce = new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new ConversionNotSupportedException(pce, requiredType, ex);
    } catch (IllegalArgumentException ex) {
        PropertyChangeEvent pce = new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new TypeMismatchException(pce, requiredType, ex);
    }
}

protected Object convertForProperty(String propertyName, Object oldValue, Object newValue, TypeDescriptor td) throws TypeMismatchException {
    return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}

@Override
public Object getPropertyValue(String propertyName) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    return nestedPa.getPropertyValue(tokens);
}

@SuppressWarnings("unchecked")
protected Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    // Cannot be evaluated, so can't be writable.
    return false;
}
String propertyName = tokens.canonicalName;
String actualName = tokens.actualName;
PropertyHandler ph = getLocalPropertyHandler(actualName);
if (ph == null || !ph.isReadable()) {
    throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
}
try {
    Object value = ph.getValue();
    if (tokens.keys != null) {
        if (value == null) {
            if (isAutoGrowNestedPaths()) {
                value = setDefaultValue(tokens.actualName);
            } else {
                throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                "Cannot access indexed value of property referenced in indexed " +
                "property path ": " + propertyName + ": returned null");
            }
        } else {
            String indexedPropertyName = tokens.actualName;
            // apply indexes and map keys
            for (int i = 0; i < tokens.keys.length; i++) {
                String key = tokens.keys[i];
                if (value == null) {
                    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                    "Cannot access indexed value of property referenced in indexed " +
                    "property path ": " + propertyName + ": returned null");
                } else if (value.getClass().isArray()) {
                    int index = Integer.parseInt(key);
                    value = growArrayIfNecessary(value, index, indexedPropertyName);
                    value = Array.get(value, index);
                } else if (value instanceof List) {
                    int index = Integer.parseInt(key);
                    List<Object> list = (List<Object>) value;
                    growCollectionIfNecessary(list, index, indexedPropertyName, ph, i + 1);
                    value = list.get(index);
                } else if (value instanceof Set) {
                    // Apply index to Iterator in case of a Set.
                    Set<Object> set = (Set<Object>) value;
                    int index = Integer.parseInt(key);
                    if (index < 0 || index >= set.size()) {
                        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
                        "Cannot get element with index " + index + " from Set of size " +
                        set.size() + ", accessed using property path ": " + propertyName + ":";)
                    }
                }
            }
        }
    } else if (value.getClass().isArray()) {
        int index = Integer.parseInt(key);
        value = growArrayIfNecessary(value, index, indexedPropertyName);
    } else if (value instanceof List) {
        int index = Integer.parseInt(key);
        List<Object> list = (List<Object>) value;
        growCollectionIfNecessary(list, index, indexedPropertyName, ph, i + 1);
        value = list.get(index);
    } else if (value instanceof Set) {
        // Apply index to Iterator in case of a Set.
        Set<Object> set = (Set<Object>) value;
        int index = Integer.parseInt(key);
        if (index < 0 || index >= set.size()) {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Cannot get element with index " + index + " from Set of size " +
            set.size() + ", accessed using property path ": " + propertyName + ":";)
        }
    }
}
Iterator<Object> it = set.iterator();
for (int j = 0; it.hasNext(); j++) {
    Object elem = it.next();
    if (j == index) {
        value = elem;
        break;
    }
}
else if (value instanceof Map) {
    Map<Object, Object> map = (Map<Object, Object>) value;
    Class<?> mapKeyType = ph.getResolvableType().getNested(i + 1).asMap().resolveGeneric(0);
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, key, mapKeyType, typeDescriptor);
    value = map.get(convertedMapKey);
} else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Property referenced in indexed property path \"" + propertyName + "\" is neither an array nor a List nor a Set nor a Map; returned value was \"" + value + "]\"\");  
}
indexedPropertyName += PROPERTY_KEY_PREFIX + key + PROPERTY_KEY_SUFFIX;
return value;
}
catch (IndexOutOfBoundsException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Index of out of bounds in property path \"" + propertyName + "\"", ex);
}
catch (NumberFormatException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Invalid index in property path \"" + propertyName + "\"", ex);
}
catch (TypeMismatchException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Invalid index in property path \"" + propertyName + "\"", ex);
}
catch (InvocationTargetException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Getter for property \"" + actualName + "\" threw exception", ex);
}
catch (Exception ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Illegal attempt to get property \"" + actualName + "\" threw exception", ex);
}

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protected PropertyHandler getPropertyHandler(String propertyName) throws BeansException {
    Assert.notNull(propertyName, "Property name must not be null");
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    return nestedPa.getLocalPropertyHandler(getFinalPath(nestedPa, propertyName));
}

protected abstract PropertyHandler getLocalPropertyHandler(String propertyName);

protected abstract AbstractNestablePropertyAccessor newNestedPropertyAccessor(Object object, String nestedPath);

protected abstract NotWritablePropertyException createNotWritablePropertyException(String propertyName);

private Object growArrayIfNecessary(Object array, int index, String name) {
    if (!isAutoGrowNestedPaths()) {
        return array;
    }
    int length = Array.getLength(array);
    if (index >= length && index < this.autoGrowCollectionLimit) {
        Class<?> componentType = array.getClass().getComponentType();
        }
}
Object newArray = Array.newInstance(componentType, index + 1);
System.arraycopy(array, 0, newArray, 0, length);
for (int i = length; i < Array.getLength(newArray); i++) {
    Array.set(newArray, i, newValue(componentType, null, name));
}
setPropertyValue(name, newArray);
return getPropertyValue(name);
} else {
    return array;
}
}

private void growCollectionIfNecessary(Collection<Object> collection, int index, String name, PropertyHandler ph, int nestingLevel) {
    if (!isAutoGrowNestedPaths()) {
        return;
    }
    int size = collection.size();
    if (index >= size && index < this.autoGrowCollectionLimit) {
        Class<?> elementType = ph.getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
        if (elementType != null) {
            for (int i = collection.size(); i < index + 1; i++) {
                collection.add(newValue(elementType, null, name));
            }
        }
    }

    /**
     * Get the last component of the path. Also works if not nested.
     * @param pa property accessor to work on
     * @param nestedPath property path we know is nested
     * @return last component of the path (the property on the target bean)
     */
    protected String getFinalPath(AbstractNestablePropertyAccessor pa, String nestedPath) {
        if (pa == this) {
            return nestedPath;
        }
        return nestedPath.substring(PropertyAccessorUtils.getLastNestedPropertySeparatorIndex(nestedPath) + 1);
    }

    /**
     * Recursively navigate to return a property accessor for the nested property path.
     * @param propertyName property path, which may be nested
     * @return a property accessor for the target bean
     */
@SuppressWarnings("unchecked")  // avoid nested generic
protected AbstractNestablePropertyAccessor getPropertyAccessorForPropertyPath(String propertyPath) {
    int pos = PropertyAccessorUtils.getFirstNestedPropertySeparatorIndex(propertyPath);
    // Handle nested properties recursively.
    if (pos > -1) {
        String nestedProperty = propertyPath.substring(0, pos);
        String nestedPath = propertyPath.substring(pos + 1);
        AbstractNestablePropertyAccessor nestedPa = getNestedPropertyAccessor(nestedProperty);
        return nestedPa.getPropertyAccessorForPropertyPath(nestedPath);
    } else {
        return this;
    }
}

/**
 * Retrieve a Property accessor for the given nested property.
 * Create a new one if not found in the cache.
 * <p>Note: Caching nested PropertyAccessors is necessary now,
 * to keep registered custom editors for nested properties.
 * @param nestedProperty property to create the PropertyAccessor for
 * @return the PropertyAccessor instance, either cached or newly created
 */
private AbstractNestablePropertyAccessor getNestedPropertyAccessor(String nestedProperty) {
    if (this.nestedPropertyAccessors == null) {
        this.nestedPropertyAccessors = new HashMap<String, AbstractNestablePropertyAccessor>();
    }
    // Get value of bean property.
    PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
    String canonicalName = tokens.canonicalName;
    Object value = getPropertyValue(tokens);
    if (value == null || (value.getClass() == javaUtilOptionalClass && OptionalUnwrapper.isEmpty(value))) {
        if (isAutoGrowNestedPaths()) {
            value = setDefaultValue(tokens);
        } else {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
        }
    }
    // Lookup cached sub-PropertyAccessor, create new one if not found.
    AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
    if (nestedPa == null || nestedPa.getWrappedInstance() !=
        (value.getClass() == javaUtilOptionalClass ? OptionalUnwrapper.unwrap(value) : value)) {
        if (logger.isTraceEnabled()) {
            logger.trace("Creating new nested "+ getClass().getSimpleName()+" for property "+canonicalName+"=");
        }
        nestedPa = newNestedPropertyAccessor(value, this.nestedPath + canonicalName +

NESTED_PROPERTY_SEPARATOR);
// Inherit all type-specific PropertyEditors.
copyDefaultEditorsTo(nestedPa);
copyCustomEditorsTo(nestedPa, canonicalName);
this.nestedPropertyAccessors.put(canonicalName, nestedPa);
}
else {
if (logger.isTraceEnabled()) {
logger.trace("Using cached nested property accessor for property "+ canonicalName + ":")
}
}
return nestedPa;
}

private Object setDefaultValue(String propertyName) {
PropertyTokenHolder tokens = new PropertyTokenHolder();
tokens.actualName = propertyName;
tokens.canonicalName = propertyName;
return setDefaultValue(tokens);
}

private Object setDefaultValue(PropertyTokenHolder tokens) {
PropertyValue pv = createDefaultPropertyValue(tokens);
setPropertyValue(tokens, pv);
return getPropertyValue(tokens);
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
TypeDescriptor desc = getPropertyTypeDescriptor(tokens.canonicalName);
Class<?> type = desc.getType();
if (type == null) {
throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Could not determine property type for auto-growing a default value");
}
Object defaultValue = newValue(type, desc, tokens.canonicalName);
return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, TypeDescriptor desc, String name) {
try {
if (type.isArray()) {
Class<?> componentType = type.getComponentType();
// TODO - only handles 2-dimensional arrays
if (componentType.isArray()) {
Object array = Array.newInstance(componentType, 1);
Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
return array;
}
else {
    return Array.newInstance(componentType, 0);
}
} else if (Collection.class.isAssignableFrom(type)) {
    TypeDescriptor elementDesc = (desc != null ? desc.getElementTypeDescriptor() : null);
    return CollectionFactory.createCollection(type, (elementDesc != null ? elementDesc.getType() : null), 16);
} else if (Map.class.isAssignableFrom(type)) {
    TypeDescriptor keyDesc = (desc != null ? desc.getMapKeyTypeDescriptor() : null);
    return CollectionFactory.createMap(type, (keyDesc != null ? keyDesc.getType() : null), 16);
} else {
    return BeanUtils.instantiate(type);
}
}

catch (Throwable ex) {
    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + name,
        "Could not instantiate property type "] + type.getName() + "] to auto-grow nested property path", ex);
}

/**
 * Parse the given property name into the corresponding property name tokens.
 * @param propertyName the property name to parse
 * @return representation of the parsed property tokens
 */
private PropertyTokenHolder getPropertyNameTokens(String propertyName) {
    PropertyTokenHolder tokens = new PropertyTokenHolder();
    String actualName = null;
    List<String> keys = new ArrayList<String>(2);
    int searchIndex = 0;
    while (searchIndex != -1) {
        int keyStart = propertyName.indexOf(PROPERTY_KEY_PREFIX, searchIndex);
        searchIndex = -1;
        if (keyStart != -1) {
            int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart +
                PROPERTY_KEY_PREFIX.length());
            if (keyStart != -1) {
                int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart +
                    PROPERTY_KEY_PREFIX.length());
                if (keyEnd != -1) {
                    if (actualName == null) {
                        actualName = propertyName.substring(0, keyStart);
                    }
                    String key = propertyName.substring(keyStart +
                        PROPERTY_KEY_PREFIX.length(), keyEnd);
                    if (keyEnd != -1) {
                        if (actualName == null) {
                            actualName = propertyName.substring(0, keyStart);
                        }
                        String key = propertyName.substring(keyStart +
                            PROPERTY_KEY_PREFIX.length(), keyEnd);
                        if (key.length() > 1 && (key.startsWith(""") & key.endsWith(""""))) {
                            key = key.substring(1, key.length() - 1);
                        }
                        keys.add(key);
                    }
                }
            }
        }
    }
    return tokens;
}
searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
}
}
}
tokens.actualName = (actualName != null ? actualName : propertyName);
tokens.canonicalName = tokens.actualName;
if (!keys.isEmpty()) {
tokens.canonicalName += PROPERTY_KEY_PREFIX +
StringUtils.collectionToDelimitedString(keys, PROPERTY_KEY_SUFFIX + PROPERTY_KEY_PREFIX) +
PROPERTY_KEY_SUFFIX;
tokens.keys = StringUtils.toStringArray(keys);
}
return tokens;
}
@Override
public String toString() {
StringBuilder sb = new StringBuilder(getClass().getName());
if (this.wrappedObject != null) {
sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.wrappedObject)).append("]");
}
else {
sb.append(": no wrapped object set");
}
return sb.toString();
}

protected abstract static class PropertyHandler {
private final Class<?> propertyType;
private final boolean readable;
private final boolean writable;
public PropertyHandler(Class<?> propertyType, boolean readable, boolean writable) {
this.propertyType = propertyType;
this.readable = readable;
this.writable = writable;
}
public Class<?> getPropertyType() {
return this.propertyType;
}
public boolean isReadable() {
return this.readable;

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public boolean isWritable() {
    return this.writable;
}

class PropertyTokenHolder {
    public String canonicalName;
    public String actualName;
    public String[] keys;
}

/**
 * Inner class to avoid a hard dependency on Java 8.
 */
@UsesJava8
private static class OptionalUnwrapper {
    public static Object unwrap(Object optionalObject) {
        Optional<?> optional = (Optional<?>) optionalObject;
        return optional.isPresent() ? optional.get() : null;
    }
}
public static boolean isEmpty(Object optionalObject) {
    return !((Optional<?>) optionalObject).isPresent();
}

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1.369 xz-java 1.8
1.369.1 Available under license:
//opt/ws_local/PERMITS_SQL/1024750274_1585404755.89/0/xz-1-8-sources-
jar/org/tukaani/xz/DeltaDecoder.java: * This file has been put into the public domain.

1.370 error-prone-annotations 2.0.18

1.371 woodstox-core 5.0.3

1.372 postgresql-server 9.5.19
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31.12. Notice Processing

Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on stderr, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function PQsetNoticeReceiver sets or examines the current notice receiver for a connection object.
Similarly, `<CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>` sets or examines the current notice processor.

```c
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn, PQnoticeReceiver proc, void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn, PQnoticeProcessor proc, void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `<SPAN CLASS="APPLICATION">libpq</SPAN>`, the notice receiver function is called. It is passed the message in the form of a `<TT CLASS="SYMBOL">PGRES_NONFATAL_ERROR</TT>`<\TT>

```
typedef void (*PQresultErrorField) (PGresult *res);

PQresultErrorField
PQgetResultErrorField(PGresult *res);
```

(This allows the receiver to extract individual fields using `<CODE CLASS="FUNCTION">PQresultErrorField</CODE>`
The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `PQsetNoticeProcessor`.

The default notice processor is simply:

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `<STRUCTNAME>` object.
objects made from it exist. At creation of a PGresult object, the PGconn's current notice handling pointers are copied into the PGresult for possible use by functions like PQgetvalue.

</DIV></DIV><DIV CLASS="NAVFOOTER"><HR ALIGN="LEFT" WIDTH="100%"><TABLE SUMMARY="Footer navigation table" WIDTH="100%" BORDER="0" CELLPADDING="0" CELLS cellspacing="0" <TR><TD WIDTH="33%" ALIGN="left" VALIGN="top"><A HREF="libpq-misc.html" ACCESSKEY="P">Prev</A></TD><TD WIDTH="34%" ALIGN="center" VALIGN="top"><A HREF="index.html" ACCESSKEY="H">Next</A></TD><TD WIDTH="33%" ALIGN="center" VALIGN="top"><A HREF="index.html" ACCESSKEY="P">Prev</A></TD><TD WIDTH="34%" ALIGN="center" VALIGN="top"><A HREF="index.html" ACCESSKEY="H">Next</A></TD></TR></TABLE></DIV>
diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile	Wed Oct 12 12:17:12 2011
***************
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
***************
*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core

! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
***************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ + ---------------------------------------------------------------
+
+ +
++ This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn’t very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
***************
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION "1.1"
+
+ /* profile types */
+ #define PRO_SPECIAL /* special case */
+ #define PRO_BOOL /* boolean */
+ 
+ #define STDIN /* use stdin */
+ #define KEY /* type (keyword) */
+
+ #define KEY_FILE /* only used for args */
+ #define VERSION /* only used for args */
+
+ char *option_source = "?";

+ void add_typedefs_from_file(char *str);
+
+ /
+ /*
+ * N.B.: because of the way the table here is scanned, options whose names are
+ * substrings of other options must occur later; that is, with -lp vs -l, -lp
+ ***************
*** 118,123 ****
--- 125,136 ----
+ "T", PRO_SPECIAL, 0, KEY, 0
+ },
+ "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
+ "V", PRO_SPECIAL, 0, VERSION, 0
+ },
+ "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
+ ];
+ }
+ ***************
*** 425,430 ****
--- 438,456 ----

break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
default:
    fprintf(stderr, "indent: set_option: internal error: p_special %d\n", p->p_special);

***************
*** 459,461 ****
--- 485,508 ----
exit(1);
}
}
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strspn(line, "\t\n\r")) = '0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }

Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
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Only in `pg_bsd_indent/indent/indent_globs.h`
```
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005
***************
*** 239,245 ****
 scomf, /* Same line comment font */
 bodyf, /* major body font */

 ! #define STACK_SIZE 150

 EXTERN struct parser_state {
  int  last_token;
--- 239,249 ----
  scomf, /* Same line comment font */
  bodyf, /* major body font */

 ! /*
 ! * This controls the maximum number of 'else if' clauses supported.
 ! * If it is exceeded, comments are placed in column 100.
 ! */
 ! #define STACK_SIZE 1000

 EXTERN struct parser_state {
  int  last_token;

 Only in `io.o`
```
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
***************
*** 93,99 ****
  int  rwcode;
};

 ! struct templ specials[1000] =
 { 
  "switch", 1,
  "case", 2, 
--- 93,99 ----
  int  rwcode;
};

 ! struct templ specials[16384] =
 { 
  "switch", 1,
  "case", 2,
  ***************
 *** 622,629 ****

else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! return/* For now, table overflows are silently
! * ignored */
p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
--- 622,632 ----
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! { 
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
!
p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.cWed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.cMon Nov 14 19:30:24 2005
***************
*** 231,236 ****
--- 231,241 ----
}/* end of switch */
+ if (ps.tos >= STACK_SIZE) {
+ fprintf(stderr, "indent: stack size overflow\n");
+ exit(1);
+ }
+ reduce();/* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.cWed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.cMon Nov 14 19:30:24 2005
***************
*** 148,154 ****
--- 148,154 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
ps.box_com = true; /* a comment with a '-', '*' or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! */
! * Don't process '\n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*') {
ps.box_com = true; /* a comment with a '-', '*' or newline immediately
* after the start comment is
***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '	');
+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+   *e_com++ = ' ' /* add blanks for continuation */
+   *e_com++ = ' ';
+   *e_com++ = ' ';
+   now_col += 3;
+ }
} else
if (++buf_ptr >= buf_end)
fill_buffer();

Only in pg_bsd_indent: pr_comment.o

PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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1.373 cxf-tools-wsdlto-frontend-javascript

3.3.5

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1.375 javax-annotation-api 1.3.2

1.376 apache-httpclient 4.5.8

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Eclipse

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

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

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.391 spring-boot-starter-aop 1.5.20

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1.395 common 1.0.0-beta.2

1.396 jetty-xml 9.4.15.v20190215

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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.417 hazelcast-client-protocol 1.8.0

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1.422 apache-felix-configadmin 1.8.10

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* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
* https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

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* License: MIT License

dom4j (1.6.1)

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file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
  https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

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* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
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* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source: https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

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    https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

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* Source:
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* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
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1.424 jsr305 1.3.9

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1.425 activation 1.2.1

1.426 apache-log4j 2.11.2

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