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1.423 tomcat-juli 9.0.16
1.424 plexus-container-default 1.0-alpha-9-stable-1
1.1 jetty-servlets 9.4.18.v20190429

1.2 cxf-tools-wsdlto-frontend-jaxws 3.3.1

1.3 spring-plugin-metadata 1.2.0

1.4 hikaricp 3.2.0

1.5 log4j-api 2.11.2

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1.6 htmlunit 2.33

1.7 maven-model 2.2.1
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====================================================================
*/

class License implements java.io.Serializable
{

    //------------------------------
    //- Class/Member Variables -/
    //------------------------------

    /**
     * The full legal name of the license.
     */
    private String name;

    /**
     * Describes the licenses for this project. This is used to
     * generate the license
     * page of the project's web site, as well as being taken
     * into consideration in other reporting
     * and validation. The licenses listed for the project are
     * that of the project itself, and not
     * of dependencies.
     *
     * @version $Revision$ $Date$
     */

package org.apache.maven.model;


//------------------------------
//- Class/Member Variables -/
//------------------------------

/**
 * The full legal name of the license.
 */

private String name;

/**
private String url;

/**
 * The official url for the license text.
 */

private String distribution;

/**
 * Addendum information pertaining to this license.
 */

//-----------/
//- Methods -/
//-----------/

/**
 * Get addendum information pertaining to this license.
 * @return String
 */

public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get the primary method by which this project may be distributed.
 * <dl>
 *   <dt>repo</dt>
 *   <dd>may be downloaded from the Maven repository</dd>
 *   <dt>manual</dt>
 *   <dd>user must manually download and install the dependency.</dd>
 * </dl>
 */
public String getDistribution() {
    return this.distribution;
} //-- String getDistribution()

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName() {
    return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
public String getUrl() {
    return this.url;
} //-- String getUrl()

/**
 * Set addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments( String comments ) {
    this.comments = comments;
} //-- void setComments( String )

/**
 * Set the primary method by which this project may be
 * distributed.
 *
 * <dl>
 *   <dt>repo
 *   <dt>manual
 * user must manually download and install
 * the dependency.
 * </dl>
 */

public void setDistribution(String distribution) {
    this.distribution = distribution;
} //-- void setDistribution(String)

/**
 * Set the full legal name of the license.
 *
 * @param name
 */
public void setName(String name) {
    this.name = name;
} //-- void setName(String)

/**
 * Set the official url for the license text.
 *
 * @param url
 */
public void setUrl(String url) {
    this.url = url;
} //-- void setUrl(String)
public class Contributor implements java.io.Serializable {

    /*-----------*/
    /*- Class/Member Variables -*/
    /*-----------*/

    /**
     * The full name of the contributor.
     */
    private String name;

    /**
     * The email address of the contributor.
     */
    private String email;

    /**
     * The URL for the homepage of the contributor.
     */
    private String url;

    /**
     * The organization to which the contributor belongs.
     */
    private String organization;

    /**
     * The URL of the organization.
     */
    private String organizationUrl;

    /**
     * Field roles.
     */
    private java.util.List<String> roles;

    /**
     * The timezone the contributor is in. This is a number in the
     * range -11 to 12.
     */
    private String timezone;
/**
 * Field properties.
 */
private java.util.Properties properties;

//-- void addProperty( String, String )

/**
 * Method addProperty.
 *
 * @param key
 * @param value
 */
public void addProperty( String key, String value )
{
    getProperties().put( key, value );
} //-- void addProperty( String, String )

/**
 * Method addRole.
 *
 * @param string
 */
public void addRole( String string )
{
    if ( !(string instanceof String) )
    {
        throw new ClassCastException( "Contributor.addRoles(string) parameter must be instanceof " + String.class.getName() );
    }
    getRoles().add( string );
} //-- void addRole( String )

/**
 * Get the email address of the contributor.
 *
 * @return String
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()
* Get the full name of the contributor.
* @return String
*/
public String getName()
{
    return this.name;
} //-- String getName()

/**
 * Get the organization to which the contributor belongs.
 * @return String
 */
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get the URL of the organization.
 * @return String
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties.
 * @return Properties
 */
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles.
 * @return List
 */
public java.util.List<String> getRoles()
{
    if ( this.roles == null )
    {
        this.roles = new java.util.ArrayList<String>();
    }

    return this.roles;
} //-- java.util.List<String> getRoles()

/**
 * Get the timezone the contributor is in. This is a number in
 * the range -11 to 12.
 * @return String
 */
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**
 * Get the URL for the homepage of the contributor.
 * @return String
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Method removeRole.
 * @param string
 */
public void removeRole( String string )
{
    if ( !(string instanceof String) )
    {
        throw new ClassCastException( "Contributor.removeRoles(string) parameter must be instanceof " +
        String.class.getName() );
    }

    getRoles().remove( string );
} //-- void removeRole( String )

/**
* Set the email address of the contributor.
* @param email
*/
public void setEmail( String email )
{
    this.email = email;
} //-- void setEmail( String )

/**
* Set the full name of the contributor.
* @param name
*/
public void setName( String name )
{
    this.name = name;
} //-- void setName( String )

/**
* Set the organization to which the contributor belongs.
* @param organization
*/
public void setOrganization( String organization )
{
    this.organization = organization;
} //-- void setOrganization( String )

/**
* Set the URL of the organization.
* @param organizationUrl
*/
public void setOrganizationUrl( String organizationUrl )
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl( String )

/**
* Set properties about the contributor, such as an instant
* messenger handle.
* @param properties
*/
public void setProperties( java.util.Properties properties )
{
    this.properties = properties;
} //-- void setProperties( java.util.Properties )

/**
 * Set the roles the contributor plays in the project. Each
 * role is described by a
 * <code>role</code> element, the body of which is
 * a role name. This can also be used to
 * describe the contribution.
 *
 * @param roles
 */
public void setRoles( java.util.List<String> roles )
{
    this.roles = roles;
} //-- void setRoles( java.util.List )

/**
 * Set the timezone the contributor is in. This is a number in
 * the range -11 to 12.
 *
 * @param timezone
 */
public void setTimezone( String timezone )
{
    this.timezone = timezone;
} //-- void setTimezone( String )

/**
 * Set the URL for the homepage of the contributor.
 *
 * @param url
 */
public void setUrl( String url )
{
    this.url = url;
} //-- void setUrl( String )

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1.8 jquery-tag-editor 1.0.21

1.9 grizzly-http 2.3.25

1.10 commons-compress 1.18

1.11 spring-retry 1.2.3

1.12 miglayout 3.5.5

1.13 jetty-http 9.4.18.v20190429

1.14 javax-transaction 1.3

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### 1.15 tomcat-jdbc 9.0.19

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.26 doxia-core 1.1.2

1.27 spring-security-web 5.1.4

1.28 client 1.0.0 beta.2

1.29 ant-launcher 1.9.6

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1.35 hibernate-types-52 2.2.0

1.36 api-i18n 1.0.0
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1.37 jacoco-core 0.8.2
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1.40 bcpkix-jdk15on 1.60

1.41 slf4j 1.7.25

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

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<title>SLF4J License</title>
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
</head>
<body>
<script type="text/javascript">prefix='';</script>
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1.42 gstreamer 0.10.35

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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1.51 classmate 1.4.0

1.51.1 Available under license:

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

Other developers who have contributed code are:

* Brian Langel

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1.52 oshi-core 3.4.4
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 *
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 */
/**
 * [oshi-core API] Provides a cross-platform implementation to retrieve
 * Operating System and Hardware Information, such as OS version, memory, CPU,
 * disk, devices, sensors, etc.
 */
package oshi;
```

1.53 jboss-logging 3.3.2
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1.54 datatype 1.4.01

1.55 j2objc-annotations 1.1

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* tab size: 8 (not used)
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<?xml version="1.0" encoding="UTF-8"?>

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<?xml version="1.0"?>
<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</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>.

<p>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.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
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 */
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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1.65 htmlunit-cssparser 1.2.0

1.66 spring-context-support 5.1.5

1.67 cxf-rt-fronteend-simple 3.3.1

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<body bgcolor="#FFFFFF" vlink="#800000">
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<p>&lt;meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"&gt;</p>
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<p>&lt;body bgcolor="#FFFFFF" VLINK="#800000"&gt;</p>

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<p>&lt;p&gt;&lt;b&gt;&lt;font size="3"&gt;&lt;/font&gt;&lt;/b&gt;&lt;/p&gt;</p>
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<p>&lt;p&gt;&lt;font size="2"&gt;&lt;b&gt;1. DEFINITIONS&lt;/b&gt;&lt;/font&gt;&lt;/p&gt;</p>
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1.83 c3p0 0.9.5.3

1.84 cxf-tools-wsdlto-core 3.3.1
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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 * @since 1.1
 */
@deprecated This class is deprecated and subject to removal in a future version of Java SE. It has been replaced by `java.security.Policy` and related classes since 1.2.
*/
@Deprecated(since="9", forRemoval=true)
public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 *
 * @param another the Permission object to compare with.
 *
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);

/**
 * Prints a string representation of this permission.
 *
 * @return the string representation of the permission.
 */
public String toString();
}

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 * accompanied this code).
 */
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a {@code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * {@code java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the {@code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 * @since 1.2
public abstract class Permission implements Guard, java.io.Serializable {
    private static final long serialVersionUID = -563657022231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     * @param name name of the Permission object being created.
     */
    public Permission(String name) {
        this.name = name;
    }

    /**
     * Implements the guard interface for a permission. The
     * SecurityManager.checkPermission method is called,
     * passing this permission object as the permission to check.
     * Returns silently if access is granted. Otherwise, throws
     * a SecurityException.
     * @param object the object being guarded (currently ignored).
     * @throws SecurityException if a security manager exists and its
     *    checkPermission method doesn't allow access.
     * @see Guard
     * @see GuardedObject
     * @see SecurityManager#checkPermission
     */
    public void checkGuard(Object object) throws SecurityException {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null) sm.checkPermission(this);
    }

    /**
     * Checks if the specified permission's actions are "implied by"
     * this object's actions.
     * This must be implemented by subclasses of Permission, as they are the
     * only ones that can impose semantics on a Permission object.
     */
}
The `@implies` method is used by the AccessController to determine whether or not a requested permission is implied by another permission that is known to be valid in the current execution context.

@implies(Permission permission)

Checks two Permission objects for equality.

Do not use the `@equals` method for making access control decisions; use the `@implies` method.

@params

@equals(Object obj)

Returns the hash code value for this Permission object.

The required `@hashCode` behavior for Permission Objects is the following:

Whenever it is invoked on the same Permission object more than once during an execution of a Java application, the `@hashCode` method must consistently return the same integer. This integer need not remain consistent from one execution of an application to another execution of the same application.

If two Permission objects are equal according to the `@equals` method, then calling the `@hashCode` method on each of the two Permission objects must produce the same integer result.

@hashCode()
/**
 * Returns the name of this Permission.
 * For example, in the case of a `java.io.FilePermission`,
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the `getActions` method is invoked.
 *
 * @return the actions of this Permission.
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the `PermissionCollection.implies` method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" name" actions'), or
 * ('ClassName" name") if actions list is null or empty.
 * @return information about this Permission.
 */
public String toString() {
    String actions = getActions();
    if (actions == null || actions.isEmpty()) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " +
                actions + ")";
    }
}

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## jQuery UI v1.12.1

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1.93 jackson-module-parameter-names 2.9.8

1.94 spring-aspects 5.1.5

1.95 open-ssl 1.0.2k

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1.111 jsr305 1.3.9

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1.113 mysema-commons-lang 0.2.4

1.114 springfox-spring-web 2.2.2
1.115 jaxb-runtime 2.3.1

1.116 checker-qual 2.0.0

1.116.1 Available under license:

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1.117 zlib 1.2.3

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 version 1.2.11, January 15th, 2017

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1.118 cxf-rt-ws-policy 3.3.1

1.119 commons-beanutils 1.9.4

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1.120 swagger-annotations 1.5.3
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     */

    package io.swagger.annotations;

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

    /**
     * License metadata available within the info section of a Swagger definition, see
     * https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject
     *<p/>
     * @since 1.5.0
     */

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


String name();

String url() default "";
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1.125 junit 4.12
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1.130 jcifs 1.3.18

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* javax.servlet:javax.servlet-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

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005/06/03 22:49:13 $

1.140 hibernate-entitymanager 5.2.16

1.141 spring-messaging 5.1.5

1.142 snake-yaml 1.23

1.143 grizzly-http-server 2.3.25

1.144 commons-io 2.5

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1.146 hibernate-validator 6.0.14
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<?xml version="1.0" encoding="UTF-8"?>
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1.152 xpp3-min 1.1.4c

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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

1.153 bcel 2.7.2

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Version 2.1, February 1999

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1.161 jetty-util 9.4.18.v20190429

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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
Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.162 springfoxswagger 2.2.2

1.163 cxf-tools-validator 3.3.1

1.164 httpcomponents-client 4.5.7
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1.169 maven-profile 2.2.1
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1.180 bridge-method-annotation 1.13

1.181 ant 1.9.6
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1.182 tyrus-container-grizzly-client 1.13

1.183 python 3.6.5

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

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

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

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Mersenne Twister

----------------

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C
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- Arguments more compliant with Python standard

XML Remote Procedure Calls

--------------------------

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll

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Select kqueue

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

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<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com/">http://voxeolabs.com/</a></li>

<li>Core Infrastructure Initiative - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>

<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de/">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>

<li>Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>

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<li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeeay private keys)</li>

<li>Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small</li>

<li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater)</li>

<li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the
Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie@thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer@64@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Markus Bradtke &lt;mab@informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierek &lt;waclaw.sierek@64@tpg.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 ASN.1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

Ly-Na Phu &lt;lyna.phu@64:init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.

Stefan K&ouml;psell &lt;sk13@64@mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/.

Carmen Bastiaans &lt;cbastiaa@64.microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tomasz@64;primekey.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.

Eugen Kuleshov &lt;euxx@hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods &lt;meganwoods@64;sekurafile.com&gt; - initial implementation of ECIES.

Christian Geuer-Pollmann &lt;geuerp@64;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

Michael M&amp;#252;hle &lt;mail.security.cert.CertificateFactory compatibility class.&gt;

Michael Mansell &lt;me@64;micahemansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker &lt;eike.recker@64;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.

Chris Southern &lt;CSouthern@64;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.

Sidney Markowitz &lt;sidney@64;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
Chris Kerr &lt;ckerr@filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

Mike Bean &lt;mbean@lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek &lt;e9526225@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;ssr002@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;kiosk@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@64;diaọcorp.com&gt; - S/Mime testing and debugging.

Kazuhiro Furuuya &lt;kfuruuya@64;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny &lt;jdnovotny@64;lbl.gov&gt; - initial work on the openSSL PEM processing.

Joel Hockey &lt;joel.hockey@64;qsipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS@64;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin@64;chapweske.com&gt; - ordering patch for Tiger message digest.

John Sroock &lt;jsroock@64;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@64;cit.de&gt; - fixed SMIME saveChanges() bug.

Andre Wehnert &lt;aw5@64;mail.inf.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@64;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach@64;certivo.net&gt; - SMIME v2 compatibility patches.

Marcus Povey &lt;mpovey@64;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clau&szlig; &lt;sc2@64;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza@64;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;rcsdio@64;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes@64;eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor@64;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;rn 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>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</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>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>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
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<li>Artem Portnoy &lt;Artem_Portnoy&#064;#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.
Andrew Thornton &lt;andrew@064caret.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.Bosseleurs#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 CMS-SignedDataGenerator, 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#064digiweb.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#064vianvianen.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#064email.cz&gt; - patch to CMS-SignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.

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 Scendoni &lt;nscendoni#064babelp.s.it&gt; - patch to add sorting to CertPath validation.

Ville Skytt&auml; &lt;ville.skytta#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. Diffie-Hellman patch for provider compliance. Support for PEM object "TRUSTED
CERTIFICATE”. Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon#savvis.net&gt; - patch to secret key creation encoding
NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;miles.whiteley#savvis.net&gt; - ”223” fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner#evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos#evintia.com&gt; - initial TSP implementation, patch to SignerInformation for
supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;jsavi#codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hakala &lt;joni.hakala#cern.ch&gt; - initial implementations of VOMS Attribute Certificate
Validation, ifetAttrSyntext, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-
gee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger &lt;rolf#wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin#yahoo.com&gt; - fix for recovering certificate aliases in BKS and
UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode
(GOFB) and GOST-3411.</li>
<li>Franck Leroy &lt;Franck.Leroy#keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP
implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;tymnk#jcraft.com&gt; - patch for improving use of Montgomery numbers in
BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov &lt;tyrex#reksoft.ru&gt; - patch for class cast exception in
AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer#tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP
implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell#intertrust.com&gt; - 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.</li>
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider()
correctly.</li>
<li>Dirk Eisner &lt;D.Eisner#seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier &lt;julienpasquier#free.fr&gt; - initial implementation of attribute classes from RFC 3126.
Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso#libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson#burnsec.com&gt; - patches to PGP tools, isRevoked method on
PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov#intel.com&gt; - extensive provider exception handling
compliance testing.</li>
<li>Florin Kollan &lt;adlocflo#web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev &lt;paulvass#gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom#nux.net&gt; - addition of DES-EDC encryption for RSAPrivate keys to
PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk#intel.com&gt; - patch to fix parsing issue with OpenSSL
PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch#maxence.de&gt; - additional fix for partial reading with new style PGP
packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix#credit-suisse.com&gt; - fix for 31 byte issue and exception throwing
by Whirlpool.</li>
<li>David M. Lee &lt;dmlee#crossroads.com&gt; - code for add and remove secret key in the
PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
<li>Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung&#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz&#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees&#0644ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;bugbee&#064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;brianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier&#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ede MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CAKMAC and DESede-CMAC to JCE provider.</li>
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>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.</li>
<li>J&ouml;rg Eichhorn &lt;jceichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme &lt;widerstand&#064online.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.</li>
<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>
John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lipold &lt;georg.lippo064ld@064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin Häu064uml:berling &lt;arminha@064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;roaquil@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@064rtnr.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&uuml;hler &lt;olga.kelaehler@064hjpw-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&uuml;ria Mar&iacute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@064gmx.064h&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_ghost@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@#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@#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

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

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;mavrcknz@#064yahoo.com&gt; - patch to constructor 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@#064sigrund-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Jon Larrañtuleaga &lt;alias@#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.


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

Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB 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;toffe79@#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycastle_pfitz@#064fitzpatrick.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;emir.bucalovic@#064mail.com&gt; - subjectAlternativeName fix for X509CertStoreSelector.

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

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

- Lothar Kimmeringer &lt;job@kimmeringer.de&gt;: verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
- Richard Farr &lt;rfarr.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@064sogeit.it&gt;: patch for recognising multiple counter signatures.
- Robin Lundgren &lt;737lundgren@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 lookup 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.
- Tomasz 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 Kilaringis &lt;markus@064primekey.se&gt;: several enhancements to TimeStampResponseGenerator.
- Dario Novakovic &lt;darionis@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;andrea.zilio@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 PKCS10 and certificate generation support.
- Frank Cornelis &lt;info@064frankcornelis.be&gt;: additional support classes for CAdES, enhancements to OCSP classes.
- Jan Dittberner &lt;jan@064dittberner.info&gt;: addHeader patch for SMIME generator.
- Bob McGowan &lt;boab.mcgoo@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;necesche@064gmail.com&gt;: patch to add IV to ISO9797Alg3Mac.
- Alf Malf &lt;alfmalf@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@064unimaticaspa.it&gt;: initial work on CMSTimeStampedDataParser.
- 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 CMSContentDataParser.

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

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

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;btbuktu@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@064tnge.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 PKCS10CertificateRequests.

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 Lid&eacute;n Borell &lt;samuel@primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

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

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable 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 CipherInputStream/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 digestes, contributions to BCrypt/OpenBSD BCrypt, PGP API documentation and code.
quality work. 

- 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.
- Andrey Zhozhin &lt;zhozhin@#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.
- Sergey Tiunov &lt;ti5555d@#064gmail.com&gt; initial cut of DVCS classes.
- Damian Kolasa &lt;fatfreddy@#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.
- Ash Hughes &lt;ashley.hughes@#064blueyonder.co.uk&gt; patches for supporting PGPSecretRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures() 
- Daniel Hirscher &lt;dev@#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.
- Daniele Ricci &lt;daniele.athome@#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.
- 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.
- Babak Najafi &lt;bnajafi@#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.
- Eric M&amp;uuml;ller &lt;eric.mueller@#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.
- Mathias Herberts &lt;Mathias.Herberts@#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov &lt;daniil.ivanov@#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso &lt;daniele.grasso@#064gmail.com&gt; contributions to final Key calculation code for SRP6.
- Andrey Utkin &lt;cindrhc@#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu &lt;arnis@#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB &lt;axel-vdb@#064riseup.net&gt; initial implementation of Shacal2.
- Roberto Tyley &lt;&gt; further work on completing gradle build.
- Waldemar Dick &lt;wdick@#064devmue.de&gt; code improvement in x500 ASN.1 package.
- Sid Steward &lt;sid.steward@#064pdflabs.com&gt; code improvements to ASN1Boolean.
- Alex Klyubin &lt;klyubin@#064google.com&gt; AlgorithmParameters check for EC key agreement.
- Jonathan Gillett &lt;gsoc.student@#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller &lt;kieran.miller@iaik.tugraz.at&gt; initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli@&lt;ehli@#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt@&lt;Daniel.Heldt@#064cryptovision.com&gt; Initial support for encodable state message digests
- Robert Bushman@&lt;bouncycastle@#064traxel.com&gt; Clean up of DirectKeySignature example.
- Maurice Aarts@&lt;aarts@#064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer@&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.
- KB Sriram@&lt;mail_kb@#064yahoo.com&gt; testing for odd encodings for PGP User Attribute
Subpackets.

Marco Schulze&lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaef&lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.

dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich&lt;toebias.wich&#0640sec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens&lt;hauke&#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman&lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza&lt;j.kapitza&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund&lt;johan&#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.

nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch &lt;axel-vdb&x26;#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins &lt;derek&#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt;peto&#064064galois.com&gt; Correction to notification/error message handling in SignedMailValidator.

lartiguePierre&lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.

Thomas Belot&lt;thomas.belot+BC&#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce&lt;https://github.com/richdiroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Bjoern Karl&lt;j.w.janssen+bouncycastle&#064lxtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer&#064064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles&#064opentrust.com&gt; Fix for IES data length check on decryption.
<li>Niko &lt;nfink95&#064;gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff&#064;crypto vision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Luukas Deputat &lt;luukas.deputat&#064;gmail.com&gt; Fixed bugs in TlsUtils read methods [#BIA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.</li>
<li>Andr&eacute;&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaransowski &lt;https://github.com/slawekjaransowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77&#064;gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle&#064;grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;girazoki&#064;wpi.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/unsigned.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064;veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Andreas Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064;064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for EC2GOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
<li>Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtl.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGP.SecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BePublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>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.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Litiukas &lt;https://github.com/Aurimas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to IceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.
Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.
Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.
Golden Loopy &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.
Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer#064truesec.se&gt; Additional improvements to constant time comparisons.
Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.
Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.
gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.
im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.
Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.
dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.
Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
Ugochukwu Mmaduekwe &lt;https://github.com/Xor-eld&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.
aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.
Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.
vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
Tobias Ospelt &lt;tobias#064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.

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1.194 spring-orm 5.1.5

1.195 commons-http-client 3.1

1.196 log4j-over-slf4j 1.7.25

1.197 commons-text 1.2

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1.199 spring-boot-starter-data-jpa 2.1.3

1.200 hibernate-search-engine 5.9.0
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     */

1.201 websocket-common 9.4.18.v20190429

1.202 htmlunit-corejs 2.33

1.203 jcl-over-slf4j 1.7.25

1.204 flyway-core 5.2.4

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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

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies. This program and the accompanying materials are made available under the terms of the Eclipse Public License 2.0 which is available at http://www.eclipse.org/legal/epl-2.0, or the Apache Software License 2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.

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1.207 txw2 2.3.1

1.208 springfox-spi 2.2.2

1.209 lucene-facet 5.5.5

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1.212 doxia-module-fml 1.1.2

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1.214 javax-annotation-api 1.3.2

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1.217 jradius-extended 1.1.5

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 *           jquery.ui.effect.js, jquery.ui.effect-blind.js, jquery.ui.effect-bounce.js, jquery.ui.effect-clip.js, jquery.ui.effect-drop.js,
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1.233 spring-boot-configuration-metadata
2.1.3

1.234 jackson 1.9.13

1.235 cxf-rt-databinding-jaxb 3.3.1

1.236 spring-web 5.1.5

1.237 tyrus-client 1.13
1.238 jaxb-core 2.3.0

1.239 hibernate 5.2.17

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 */

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/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */

public class Permission {
  private String permission;
  private String description;
  private boolean isDefault;

  public Permission() {
  }

  public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
  }

  public String getDescription() {
    return description;
  }

  public void setDescription(String description) {
  }
}
this.description = description;
}

public String getPermission() {
    return permission;
}

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

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

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 */

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

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {
    int copyFrom(InputStream in) throws IOException;
}

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1.255 commons-beanutils 1.6

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1.259 commons-math 3.6.1

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1.262 ant 1.10.3

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1.264 spring-batch-infrastructure 4.1.2

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

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* java.sun.security.ssl

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

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.272 api-asn1-api 1.0.0

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1.273 zlib 1.2.5

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1.275 open-ssl 1.0.2p

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1.277 api-util 1.0.0
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1.282 spring-boot-starter-aop 2.1.3

1.283 spring-context 5.1.5
1.284 jackson 2.9.8

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1.285 spring-batch-core 4.1.2

1.286 unix4j-base 0.4
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1.289 snmp-4j 2.4.2

1.290 doxia-site-renderer 1.1.2
1.290.1 Available under license :

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1.293 accessors-smart 1.2

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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1.345 json-path 2.4.0

1.346 spring-boot-starter-jetty 2.1.3

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1.370 reflections 0.9.9

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1.377 threetenbp 1.3.6

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1.380 cxf-rt-transports-http 3.3.1

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- *.1               Unix-style man pages for programs (same info as usage.doc).
- wizard.doc        Advanced usage instructions for JPEG wizards only.
- change.log        Version-to-version change highlights.

Programmer and internal documentation:
- libjpeg.doc       How to use the JPEG library in your own programs.
- example.c         Sample code for calling the JPEG library.
- structure.doc     Overview of the JPEG library's internal structure.
- filelist.doc      Road map of IJG files.
- coderules.doc     Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.
We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

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

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

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

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

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

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

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

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

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

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

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

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

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

As always, speeding things up is of great interest.

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

---

1.397 codegen 0.6.8

1.398 easymock 3.1

1.398.1 Available under license:

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    // ------------------------------------------------------------------

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1.399 springfox-schema 2.2.2

1.400 spring-jcl 5.1.5

1.401 commons-pool 1.6

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1.402 jetty-security 9.4.18.v20190429

1.403 sqlite 3.7.16.2
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1.404 maven-reporting-api 2.2.1

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1.405 jlibmodbus 1.2.8.4

1.406 json-simple 1.1.1

1.407 stax 3.1.4
1.407.1 Available under license :

# Jackson JSON processor

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1.408 swagger 1.5.3

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```java
package io.swagger.models;

public class License {
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        // Rest of the code
    }
```

Open Source Used In Industrial Network Director Software 1.8.01832
setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

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

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int result = 1;
        result = prime * result + ((name == null) ? 0 : name.hashCode);
        result = prime * result + ((url == null) ? 0 : url.hashCode);
        return result;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        License other = (License) obj;
        if (name == null) {
            if (other.name != null) {
                return false;
            }
        } else if (!name.equals(other.name)) {
            return false;
        }
        return true;
    }
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
    return true;
}

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1.409.1 Available under license :
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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
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It is currently developed by a community of developers, as well as supported
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1.411 cxf-rt-wsdl 3.3.1

1.412 velocity 2.0
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1.416 postgresql-jdbc 42.2.5
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title: PostgreSQL JDBC Contributors
resource: ../media
nav: ../
---

{% include submenu_community.html %}

<div id="pgContentWrap">

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<li><a href="#authors">Previous Maintainers</a></li>
<li><a href="#developers">Developers</a></li>
<li><a href="#translators">Translators</a></li>
</ul>
<hr />
<a name="maintainers"></a>
<h2 class="underlined_10">Maintainers</h2>
<br />
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<br />
<ul>
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<li>[oliver] - Oliver Jowett (oliver.at.opencloud.com)</li>
</ul>
<br />
<br />
<a name="authors"></a>
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<br />
<p>The original JDBC driver was written by Adrian Hall. Peter Mount and Barry Lind have maintained it in the past, but have since moved on to other things.</p>
</div>
Developers

People who have contributed significant code to the project since the 7.4 release. A careful historical study has not been commissioned, but if you've done something valuable, we'd be happy to recognize you for it. Just let us know.

Jan Andre le Roux
- ResultSetMetaData information based on the V3 protocol

Jaroslaw J. Pyszny
- Improve MetaData regarding the serial datatype

Ulrich Meis
- Allow users to customize the SSL connection

Xavier Poinsard
- Standard escaped functions {fn ...() }

Oliver Siegmar
- Support for infinity in the timestamp datatype
- Make PGInterval able to decode and manipulate interval data

Michael Barker
- Blob write and position methods

Andras Kadinger
- Support asynchronous notification retrieval
Heikki Linnakangas
<ul>
<li>XADatasource implementation.</li>
</ul>
Luis Vilar Flores
<ul>
<li>Reduce memory usage retrieving bytea data.</li>
</ul>
Michael Paesold
<ul>
<li>Correctly parse dollar quotes and comments.</li>
<li>Work with standard_conforming_strings = on.</li>
</ul>
Mikko Tiihonen
<ul>
<li>Improve speed of parsing ResultSet data.</li>
</ul>
Marek Lewczuk
<ul>
<li>Support multi-dimensional arrays and NULL array elements.</li>
</ul>

---

Translators
<a name="translators"></a>
<h2 class="underlined_10">Translators</h2>
<div>
<ul>
<li>cs - Czech</li>
<li>Petr Dittrich</li>
</ul>
</div>

<ul>
<li>de - German</li>
<li>Andre Bialojahn</li>
</ul>

<ul>
<li>es - Spanish</li>
<li>Diego A. Gil</li>
</ul>
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nav: ../
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}

1.417 threetenbp 1.3.3

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1.419 byte-buddy 1.9.10

1.420 codegen 0.6.8

1.421 commons-lang 2.3

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1.422 swagger-ui 3.24.0

1.423 tomcat-juli 9.0.16

1.424 plexus-container-default 1.0-alpha-9-stable-1

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1.425 mysema-commons-lang 0.2.4

1.426 maven-settings 2.2.1
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