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- 1.352 apache-commons-logging 1.1.1**
  - 1.352.1 Available under license
- 1.353 jul-to-slf4j 1.7.25**
- 1.354 spring-aop 5.1.5**
- 1.355 commons-db-cp 2.5.0**
  - 1.355.1 Available under license
- 1.356 tcl 8.6.6**
  - 1.356.1 Available under license
- 1.357 ftp-server 1.1.1**
  - 1.357.1 Available under license
- 1.358 gridstack 0.3.0**
- 1.359 plexus-utils 3.0.22**
  - 1.359.1 Available under license
- 1.360 spring-boot-properties-migrator 2.1.3**
- 1.361 lucene-queryparser 5.5.5**
  - 1.361.1 Available under license
- 1.362 zlib 1.2.8**
  - 1.362.1 Available under license
- 1.363 maven-artifact 3.6.0**
  - 1.363.1 Available under license
- 1.364 txw2 2.3.1**
- 1.365 maven-repository-metadata 2.2.1**
  - 1.365.1 Available under license
- 1.366 apache-el 8.5.35.1**
  - 1.366.1 Available under license
- 1.367 reactive-streams 1.0.2**
- 1.368 commons-exec 1.3**
  - 1.368.1 Available under license
- 1.369 jetty-continuation 9.4.18.v20190429**
- 1.370 reflections 0.9.9**
- 1.371 commons-chain 1.2**
  - 1.371.1 Available under license
- 1.372 spring-beans 5.1.5**



**1.373 spring-boot-starter-logging 2.1.3**  
**1.374 quartz 2.3.1**  
**1.375 lucene-analyzers-common 5.5.5**  
    1.375.1 Available under license  
**1.376 cxf-rt-frontend-jaxws 3.3.1**  
**1.377 threetenbp 1.3.6**  
**1.378 spring-integration-core 5.1.3**  
**1.379 spring-jdbc 5.1.5**  
**1.380 cxf-rt-transport-http 3.3.1**  
**1.381 activation 1.2.0**  
    1.381.1 Available under license  
**1.382 ant-launcher 1.10.3**  
**1.383 httpcomponents-mime 4.5.7**  
    1.383.1 Available under license  
**1.384 jackson-datatype-hibernate 2.9.8**  
**1.385 spring-data-commons 2.1.5**  
    1.385.1 Available under license  
**1.386 cxf-rt-ws-addr 3.3.1**  
**1.387 underscore-js 1.8.3**  
**1.388 jdbc-starter 2.1.3**  
**1.389 regexp 2.7.2**  
**1.390 cglib 3.2.10**  
    1.390.1 Available under license  
**1.391 annotation-indexer 2.0.3**  
    1.391.1 Available under license  
**1.392 commons-lang 3.4**  
**1.393 objectweb-asm 7.0**  
    1.393.1 Available under license  
**1.394 jettison 1.2**  
    1.394.1 Available under license  
**1.395 open-ssl 1.1.0i**  
    1.395.1 Available under license  
**1.396 libjpeg 6b**  
    1.396.1 Notifications  
    1.396.2 Available under license  
**1.397 codegen 0.6.8**  
**1.398 easymock 3.1**  
    1.398.1 Available under license  
**1.399 springfox-schema 2.2.2**

- 1.400 spring-jcl 5.1.5**
- 1.401 commons-pool 1.6**
  - 1.401.1 Available under license
- 1.402 jetty-security 9.4.18.v20190429**
- 1.403 sqlite 3.7.16.2**
  - 1.403.1 Available under license
- 1.404 maven-reporting-api 2.2.1**
  - 1.404.1 Available under license
- 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
- 1.408 swagger 1.5.3**
  - 1.408.1 Available under license
- 1.409 bean-validation-api 2.0.1**
  - 1.409.1 Available under license
- 1.410 jackson-databind 2.10.0**
  - 1.410.1 Available under license
- 1.411 cxf-rt-wsdl 3.3.1**
- 1.412 velocity 2.0**
  - 1.412.1 Available under license
- 1.413 guava 25.1**
  - 1.413.1 Available under license
- 1.414 sqlite 3.21.0**
  - 1.414.1 Available under license
- 1.415 postgres-sql 42.2.5**
  - 1.415.1 Available under license
- 1.416 postgresql-jdbc 42.2.5**
  - 1.416.1 Available under license
- 1.417 threetenbp 1.3.3**
- 1.418 json-java 20180130**
  - 1.418.1 Available under license
- 1.419 byte-buddy 1.9.10**
- 1.420 codegen 0.6.8**
- 1.421 commons-lang 2.3**
  - 1.421.1 Available under license
- 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**

- 1.424.1 Available under license
- 1.425 mysema-commons-lang 0.2.4**
- 1.426 maven-settings 2.2.1**
- 1.426.1 Available under license

## **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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Maven Model

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/\*

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=====

\*/

```
package org.apache.maven.model;
```

```
/**
```

```
* 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 $Revision$ $Date$
```

```
*/
```

```
public class License  
    implements java.io.Serializable  
{
```

```
    //-----/
```

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

```
    //-----/
```

```
/**
```

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

```
*/
```

```
private String name;
```

```
/**
```



```

* The official url for the license text.
*/
private String url;

/**
 *
 *
 * 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>
 *
 *
 */
private String distribution;

/**
 * Addendum information pertaining to this license.
 */
private String comments;

//-----/
//- 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>
*
* @return String
*/
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>

```

```

*      <dd>may be downloaded from the Maven
* repository</dd>
*      <dt>manual</dt>
*      <dd>user must manually download and install
* the dependency.</dd>
*      </dl>
*
* @param distribution
*/
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 )

}
/*
===== DO NOT EDIT THIS FILE =====
Generated by Modello 1.0.1 on 2009-08-06 15:13:09,
any modifications will be overwritten.
=====
*/

package org.apache.maven.model;

/**
 * Description of a person who has contributed to the project, but
 * who does not have

```

```

*      commit privileges. Usually, these contributions come in
* the form of patches submitted.
*
* @version $Revision$ $Date$
*/
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;

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

/**
 * 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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## 1.9 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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(Ljava/lang/String;)Ljava/lang/StringBuilder;(3#4\$5,5\*68 09 1:  
->  
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2<Code!1. #4H\*C %7H  
@ABH/YDFGFGFFGF  
FGFFGFFGFFGFGF FGF  
FGFGFFGFFGFFGFFGFFGFFEA

## 1.22 commons-configuration 1.5

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## 1.23 javax-ws-rs-api 2.0

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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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## 1.25 ehcache 2.4.0

## 1.26 doxia-core 1.1.2

## 1.27 spring-security-web 5.1.4

## 1.28 client 1.0.0 beta.2

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src/manual/en\_US/docgen-originals/figures/model2sketch\_with\_alpha.png  
src/manual/en\_US/docgen-originals/figures/tree\_with\_alpha.png  
src/manual/en\_US/favicon.png  
src/manual/en\_US/figures/model2sketch.png  
src/manual/en\_US/figures/overview.png  
src/manual/en\_US/figures/tree.png  
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src/manual/zh\_CN/favicon.png  
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## 1.39 spring-framework 5.1.5

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

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

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

```
<div id="content">
```

```
<h1>Licensing terms for SLF4J</h1>
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```
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<div class="source">
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</div>
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</p>

<script src="templates/footer.js" type="text/javascript"></script>

</div>

</body>

</html>

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888   8 888  .d88'  Y888..8P
888   8 888ooo88P'  `8888'
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`YbodP' o888o o888o o88888o

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## 1.46 tk 8.6.6

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## **1.47 cxf-rt-bindings-xml 3.3.1**

## **1.48 grizzly-framework 2.3.25**

# 1.49 log4j-to-slf4j 2.11.2

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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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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:



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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_sprintf.c:

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\* file name: UBiDiProps.java

\* encoding: US-ASCII

\* tab size: 8 (not used)

\* indentation:4

\*

\* created on: 2005jan16

\* created by: Markus W. Scherer

\*

\* Low-level Unicode bidi/shaping properties access.

\* Java port of ubidi\_props.h/c.

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`Replaceable` 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 `charAt()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

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

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

`Replaceable` also includes API to access characters in the string: `length()`, `charAt()`, `charAt32At()`, and `extractBetween()`.

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

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

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

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@author Alan Liu  
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the  
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

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

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@see Replaceable

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*/
```

```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
* Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String name) { }
```

```
    public final String getName() { return null; }
```

```
    public void checkGuard(Object obj) throws SecurityException { }
```

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

```
    public abstract String getActions();
```

```
    public abstract boolean implies(Permission permission);  
}
```

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```

```
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```

```
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```

```
</head>
```

```
<body>
```

```
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```

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```
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```

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```
<component name="CopyrightManager">
<settings default="Google">
  <module2copyright>
    <element module="All" copyright="Google" />
  </module2copyright>
  <LanguageOptions name="XML">
    <option name="fileTypeOverride" value="3" />
    <option name="prefixLines" value="false" />
  </LanguageOptions>
</settings>
</component>
```

```
<component name="CopyrightManager">
  <copyright>
    <option name="notice" value="Copyright &#36;today.year Google Inc. All Rights
Reserved.&#10;&#10;Licensed under the Apache License, Version 2.0 (the "License");&#10;you may not use this
file except in compliance with the License.&#10;You may obtain a copy of the License at&#10;&#10;
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governing permissions and&#10;limitations under the License." />
    <option name="keyword" value="Copyright" />
    <option name="allowReplaceKeyword" value="" />
    <option name="myName" value="Google" />
    <option name="myLocal" value="true" />
  </copyright>
</component>
```

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## 1.60 xstream 1.4.11.1

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## 1.73 hopscotch 0.2.5

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# 1.74 json-simple 1.1.1

## 1.75 xml-pull 1.1.3.1

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# 1.77 velocity-engine-core 2.0

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## 1.82 cglib 2.2.2

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## 1.84 cxf-tools-wsdlt-core 3.3.1

# 1.85 jackson-dataformat-yaml 2.5.4

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# 1.87 asm 7.0

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```
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```
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```

```
### xwd utility
```

```
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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 {@code 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();
```

```
}
```

```
## jQuery v3.4.1
```

```
### jQuery License
```

```
---
```

```
jQuery v 3.4.1
```

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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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```
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```
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 = -5636570222231596674L;

    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
     * {@code 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
     *         {@code 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.
     *
     * <P>
     *
     * This must be implemented by subclasses of Permission, as they are the
     * only ones that can impose semantics on a Permission object.

```

```

*
* <p>The {@code 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.
*
* @param permission the permission to check against.
*
* @return true if the specified permission is implied by this object,
* false if not.
*/

```

```
public abstract boolean implies(Permission permission);
```

```

/**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 *
 * @return true if both Permission objects are equivalent.
 */

```

```
public abstract boolean equals(Object obj);
```

```

/**
 * Returns the hash code value for this Permission object.
 * <P>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 * {@code 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.
 * <li>If two Permission objects are equal according to the
 * {@code equals}
 * method, then calling the {@code hashCode} method on each of the
 * two Permission objects must produce the same integer result.
 * </ul>
 *
 * @return a hash code value for this object.
 */

```

```
public abstract int hashCode();
```

```
/**
 * Returns the name of this Permission.
 * For example, in the case of a {@code 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 {@code 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 {@code 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
```

```

* null if one is not defined.
*/

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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```

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Mesa 3-D graphics library

Version: 5.0

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## 1.102 curl 7.58.0

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=====

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## 1.104 file-management 1.2.1

## 1.105 wsdl4j 1.6.3

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## 1.117 zlib 1.2.3

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

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## 1.118 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
 *
 * @since 1.5.0
 */
```

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

```

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

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

```

## 1.121 mapstruct 1.0.0.CR1

## 1.122 querydsl-apt 4.2.1

## 1.123 commons-collections 3.2.2

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# 1.124 oro 2.0.8

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# 1.125 junit 4.12

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# 1.126 mchange-commons-java 0.2.15

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## 1.127 jackson-databind 1.9.13

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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This product currently only contains code developed by authors  
of specific components, as identified by the source code files;  
if such notes are missing files have been created by  
Tatu Saloranta.

For additional credits (generally to people who reported problems)  
see CREDITS file.

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A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/"

# 1.128 chilay 2.0.1-SNAPSHOT

## 1.128.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <link rel="dns-prefetch" href="https://github.githubassets.com">
  <link rel="dns-prefetch" href="https://avatars0.githubusercontent.com">
  <link rel="dns-prefetch" href="https://avatars1.githubusercontent.com">
  <link rel="dns-prefetch" href="https://avatars2.githubusercontent.com">
  <link rel="dns-prefetch" href="https://avatars3.githubusercontent.com">
  <link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
  <link rel="dns-prefetch" href="https://user-images.githubusercontent.com/">

  <link crossorigin="anonymous" media="all" integrity="sha512-
7mtunHqp/Bw0ND9akjJME8XCh0WPm3HAXOSeX7skL0qGAhpdfzkQvYcuYcwNPTpWKeKMFUGZGtvnEkcc
zFgwQ==" rel="stylesheet" href="https://github.githubassets.com/assets/frameworks-
9b5314213e37056ed87b0418056c4f2c.css" />
  <link crossorigin="anonymous" media="all" integrity="sha512-
CmoegizWCUR1jC94Y2eukVQIFxJ9GxYerz9q7dBwImLx8ODwYkXAMihCfTnA45Ep6++rcO/ZtKVLvFBM8d
apA==" rel="stylesheet" href="https://github.githubassets.com/assets/site-4e9f27fa33341743f730ae7b0e33eff5.css"
/>
  <link crossorigin="anonymous" media="all" integrity="sha512-
buKrCr/U0ONf5rZeRzWnv1EyeTW4RjXcppt74M0ghnwsD4Tsu0LsD6XIIghvpB4eJKk3n8wyJOzWqV7jwNEhA
A==" rel="stylesheet" href="https://github.githubassets.com/assets/github-f07e60f7e20ba26efee2908fc2297f76.css"
/>
```

```
<meta name="viewport" content="width=device-width">

<title>chilay/LICENSE.md at master iVis-at-Bilkent/chilay GitHub</title>
  <meta name="description" content="Chisio Layout (ChiLay) provides a graph layout framework along with a
number of layout algorithms implemented in Java. Layout services can be used locally or remotely (through HTTP)
from a server. - iVis-at-Bilkent/chilay">
  <link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
<meta property="fb:app_id" content="1401488693436528">

  <meta name="twitter:image:src" content="https://avatars0.githubusercontent.com/u/12432664?s=400&v=4"
/><meta name="twitter:site" content="@github" /><meta name="twitter:card" content="summary" /><meta
name="twitter:title" content="iVis-at-Bilkent/chilay" /><meta name="twitter:description" content="Chisio Layout
(ChiLay) provides a graph layout framework along with a number of layout algorithms implemented in Java. Layout
services can be used locally or remotely (through HTTP) from a server. ..." />
  <meta property="og:image" content="https://avatars0.githubusercontent.com/u/12432664?s=400&v=4"
/><meta property="og:site_name" content="GitHub" /><meta property="og:type" content="object" /><meta
property="og:title" content="iVis-at-Bilkent/chilay" /><meta property="og:url" content="https://github.com/iVis-at-
Bilkent/chilay" /><meta property="og:description" content="Chisio Layout (ChiLay) provides a graph layout
framework along with a number of layout algorithms implemented in Java. Layout services can be used locally or
remotely (through HTTP) from a server. ..." />

<link rel="assets" href="https://github.githubassets.com/">

  <meta name="request-id" content="E328:68CC:1475AC2:1CA2E1A:5DF0C511" data-pjax-transient>

<meta name="selected-link" value="repo_source" data-pjax-transient>

  <meta name="google-site-verification" content="KT5gs8h0wvaagLKAVWq8bbeNwnZZK1r1XQysX3xurLU">
<meta name="google-site-verification" content="ZzhVyEFwb7w3e0-uOTltm8Jsck2F5StVihD0exw2fsA">
<meta name="google-site-verification" content="GXs5KoUUkNCoaAZn7wPN-t01Pywp9M3sEjnt_3_ZWPc">

  <meta name="octolytics-host" content="collector.githubapp.com" /><meta name="octolytics-app-id"
content="github" /><meta name="octolytics-event-url" content="https://collector.githubapp.com/github-
external/browser_event" /><meta name="octolytics-dimension-request_id"
content="E328:68CC:1475AC2:1CA2E1A:5DF0C511" /><meta name="octolytics-dimension-region_edge"
content="ap-south-1" /><meta name="octolytics-dimension-region_render" content="iad" /><meta
name="octolytics-dimension-ga_id" content="" class="js-octo-ga-id" /><meta name="octolytics-dimension-
visitor_id" content="2509806455008330085" />
```

<meta name="analytics-location" content="/&lt;user-name&gt;/&lt;repo-name&gt;/blob/show" data-pjax-transient="true" />

<meta name="google-analytics" content="UA-3769691-2">

<meta class="js-ga-set" name="dimension1" content="Logged Out">

<meta name="hostname" content="github.com">

<meta name="user-login" content="">

<meta name="expected-hostname" content="github.com">

<meta name="js-proxy-site-detection-payload" content="MzIyYTdiMjcxZjEyZjQ0YTM4NjRhZWRhNzM5N2M1MTI1MDRiNDk3YTk5MjhjYjk0OWUyYTgzMzY4MDdmZGVhYXx7InJlbW90ZV9hZGRyZXRzIjojInZlIuMTYzLjIyMC4xNiIsInJlcXVlc3RfaWQiOiJFMzI4OjY4Q0M6MTQ3NUFDMjoxQ0EyRTFBOjVERjBDNTEiIiwidGltZXN0YW1wIjoxNTc2MDYwMTgwLzI0aHVhLmNvbS9" />

<meta name="enabled-features" content="MARKETPLACE\_FEATURED\_BLOG\_POSTS,MARKETPLACE\_INVOICED\_BILLING,MARKETPLACE\_SOCIAL\_PROOF\_CUSTOMERS,MARKETPLACE\_TRENDING\_SOCIAL\_PROOF,MARKETPLACE\_RECOMMENDATIONS,MARKETPLACE\_PENDING\_INSTALLATIONS">

<meta name="html-safe-nonce" content="6d53f5a4ef9231a609a527b2ce6adaa73f7dee6a">

<meta http-equiv="x-pjax-version" content="c75b47f31a9b8aa232a84779d7d6d113">

<link href="https://github.com/iVis-at-Bilkent/chilay/commits/master.atom" rel="alternate" title="Recent Commits to chilay:master" type="application/atom+xml">

<meta name="go-import" content="github.com/iVis-at-Bilkent/chilay git https://github.com/iVis-at-Bilkent/chilay.git">

<meta name="octolytics-dimension-user\_id" content="12432664" /><meta name="octolytics-dimension-user\_login" content="iVis-at-Bilkent" /><meta name="octolytics-dimension-repository\_id" content="35614280" /><meta name="octolytics-dimension-repository\_nwo" content="iVis-at-Bilkent/chilay" /><meta name="octolytics-dimension-repository\_public" content="true" /><meta name="octolytics-dimension-repository\_is\_fork" content="false" /><meta name="octolytics-dimension-repository\_network\_root\_id" content="35614280" /><meta name="octolytics-dimension-repository\_network\_root\_nwo" content="iVis-at-Bilkent/chilay" /><meta

```
name="octolytics-dimension-repository_explore_github_marketplace_ci_cta_shown" content="false" />
```

```
<link rel="canonical" href="https://github.com/iVis-at-Bilkent/chilay/blob/master/LICENSE.md" data-pjax-transient>
```

```
<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">
```

```
<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
```

```
<link rel="mask-icon" href="https://github.githubassets.com/pinned-octocat.svg" color="#000000">
```

```
<link rel="icon" type="image/x-icon" class="js-site-favicon" href="https://github.githubassets.com/favicon.ico">
```

```
<meta name="theme-color" content="#1e2327">
```

```
<link rel="manifest" href="/manifest.json" crossOrigin="use-credentials">
```

```
</head>
```

```
<body class="logged-out env-production emoji-size-boost page-responsive page-blob">
```

```
<div class="position-relative js-header-wrapper ">
```

```
<a href="#start-of-content" tabindex="1" class="px-2 py-4 bg-blue text-white show-on-focus js-skip-to-content">Skip to content</a>
```

```
<span class="Progress progress-pjax-loader position-fixed width-full js-pjax-loader-bar">
```

```
<span class="progress-pjax-loader-bar top-0 left-0" style="width: 0%;"></span>
```

```
</span>
```

```
<header class="Header-old header-logged-out js-details-container Details position-relative f4 py-2" role="banner">
```

```
<div class="container-lg d-lg-flex flex-items-center p-responsive">
```

```
<div class="d-flex flex-justify-between flex-items-center">
```

```
<a class="mr-4" href="https://github.com/" aria-label="Homepage" data-ga-click="(Logged out) Header, go to homepage, icon:logo-wordmark">
```

```
<svg height="32" class="octicon octicon-mark-github text-white" viewBox="0 0 16 16" version="1.1" width="32" aria-hidden="true"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47
```

```
7.59 4.07 5.55 17.55 38 0 19 0 1 82 0 1 1 49 2 0 1 37 2 53 49 2 69 94 0 9 23 48 94 82 1 13 28 15 68 52
```

.01-.53.63-.01 1.08.58 1.23.82.72 1.21 1.87.87 2.33.66.07-.52.28-.87.51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87.31-1.59.82-2.15-.08-.2-.36-1.02.08-2.12 0 0 .67-.21 2.2.82.64-.18 1.32-.27 2-.27.68 0 1.36.09 2 .27 1.53-1.04 2.2-.82 2.2-.82.44 1.1.16 1.92.08 2.12.51.56.82 1.27.82 2.15 0 3.07-1.87 3.75-3.65 3.95.29.25.54.73.54 1.48 0 1.07-.01 1.93-.01 2.2 0 .21.15.46.55.38A8.013 8.013 0 0016 8c0-4.42-3.58-8-8-8z"/></svg>

</a>

<div class="d-lg-none css-truncate css-truncate-target width-fit p-2">

<svg class="octicon octicon-repo" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>

<a class="Header-link" href="/iVis-at-Bilkent">iVis-at-Bilkent</a>

/

<a class="Header-link" href="/iVis-at-Bilkent/chilay">chilay</a>

</div>

<div class="d-flex flex-items-center">

<a href="/join?source=header-repo"

class="d-inline-block d-lg-none f5 text-white no-underline border border-gray-dark rounded-2 px-2 py-1 mr-3 mr-sm-5"

data-hydro-

click="{&quot;event\_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location\_in\_page&quot;:&quot;site

header&quot;,&quot;repository\_id&quot;:null,&quot;auth\_type&quot;:&quot;SIGN\_UP&quot;,&quot;client\_id&quot;:&quot;584359852.1572929893&quot;,&quot;originating\_request\_id&quot;:&quot;E328:68CC:1475AC2:1CA2E1A:5DF0C511&quot;,&quot;originating\_url&quot;:&quot;https://github.com/iVis-at-

Bilkent/chilay/blob/master/LICENSE.md&quot;,&quot;referrer&quot;:&quot;https://github.com/iVis-at-Bilkent/chilay&quot;,&quot;user\_id&quot;:null}" data-hydro-click-

hmac="e2808c72f16ddd7b48d0b605d13ec5996f4f3594d4e7e1e77fbc302f128a9717"

data-ga-click="(Logged out) Header, clicked Sign up, text:sign-up">

Sign&nbsp;up

</a>

<button class="btn-link d-lg-none mt-1 js-details-target" type="button" aria-label="Toggle navigation" aria-expanded="false">

<svg height="24" class="octicon octicon-three-bars text-white" viewBox="0 0 12 16" version="1.1" width="18" aria-hidden="true"><path fill-rule="evenodd" d="M11.41 9H.59C0 9 8.59 0 8c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zm0-4H.59C0 5 4.59 0 4c0-.59 0-1 .59-1H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1h.01zM.59 11H11.4c.59 0 .59.41.59 1 0 .59 0 1-.59 1H.59C0 13 12.59 0 12c0-.59 0-1 .59-1z"/></svg>

</button>

</div>

</div>

<div class="HeaderMenu HeaderMenu--logged-out position-fixed top-0 right-0 bottom-0 height-fit position-lg-

```

relative d-lg-flex flex-justify-between flex-items-center flex-auto">
  <div class="d-flex d-lg-none flex-justify-end border-bottom bg-gray-light p-3">
    <button class="btn-link js-details-target" type="button" aria-label="Toggle navigation" aria-expanded="false">
      <svg height="24" class="octicon octicon-x text-gray" viewBox="0 0 12 16" version="1.1" width="18" aria-
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
    </button>
  </div>

  <nav class="mt-0 px-3 px-lg-0 mb-5 mb-lg-0" aria-label="Global">
    <ul class="d-lg-flex list-style-none">
      <li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-
lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
        <details class="HeaderMenu-details details-overlay details-reset width-full">
          <summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-
inline-block">
            Why GitHub?
            <svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevron-
down-mktg position-absolute position-lg-relative">
              <path d="M1,1l6.2,6L13,1"></path>
            </svg>
          </summary>
          <div class="dropdown-menu flex-auto rounded-1 bg-white px-0 mt-0 pb-4 p-lg-4 position-relative
position-lg-absolute left-0 left-lg-n4">
            <a href="/features" class="py-2 lh-condensed-ultra d-block link-gray-dark no-underline h5 Bump-link--
hover" data-ga-click="(Logged out) Header, go to Features">Features <span class="Bump-link-symbol float-right
text-normal text-gray-light">&rarr;</span></a>
            <ul class="list-style-none f5 pb-3">
              <li class="edge-item-fix"><a href="/features/code-review/" class="py-2 lh-condensed-ultra d-block
link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Code review">Code review</a></li>
              <li class="edge-item-fix"><a href="/features/project-management/" class="py-2 lh-condensed-ultra d-
block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Project management">Project
management</a></li>
              <li class="edge-item-fix"><a href="/features/integrations" class="py-2 lh-condensed-ultra d-block
link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Integrations">Integrations</a></li>
              <li class="edge-item-fix"><a href="/features/actions" class="py-2 lh-condensed-ultra d-block link-gray
no-underline f5" data-ga-click="(Logged out) Header, go to Actions">Actions</a></li>
              <li class="edge-item-fix"><a href="/features/packages" class="py-2 lh-condensed-ultra d-block link-
gray no-underline f5" data-ga-click="(Logged out) Header, go to GitHub Packages">Packages</a></li>
              <li class="edge-item-fix"><a href="/features/security" class="py-2 lh-condensed-ultra d-block link-
gray no-underline f5" data-ga-click="(Logged out) Header, go to Security">Security</a></li>
              <li class="edge-item-fix"><a href="/features#team-management" class="py-2 lh-condensed-ultra d-
block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Team management">Team
management</a></li>
              <li class="edge-item-fix"><a href="/features#hosting" class="py-2 lh-condensed-ultra d-block link-
gray no-underline f5" data-ga-click="(Logged out) Header, go to Code hosting">Hosting</a></li>
            </ul>
          </div>
        </details>
      </li>
    </ul>
  </nav>

```

```

        <ul class="list-style-none mb-0 border-lg-top pt-lg-3">
            <li class="edge-item-fix"><a href="/customer-stories" class="py-2 lh-condensed-ultra d-block no-underline link-gray-dark no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Customer stories">Customer stories <span class="Bump-link-symbol float-right text-normal text-gray-light">&rarr;</span></a></li>
            <li class="edge-item-fix"><a href="/security" class="py-2 lh-condensed-ultra d-block no-underline link-gray-dark no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Security">Security <span class="Bump-link-symbol float-right text-normal text-gray-light">&rarr;</span></a></li>
        </ul>
    </div>
</details>
</li>
<li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
    <a href="/enterprise" class="HeaderMenu-link no-underline py-3 d-block d-lg-inline-block" data-ga-click="(Logged out) Header, go to Enterprise">Enterprise</a>
</li>

<li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
    <details class="HeaderMenu-details details-overlay details-reset width-full">
        <summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
            Explore
            <svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevron-down-mktg position-absolute position-lg-relative">
                <path d="M1,116.2,6L13,1"></path>
            </svg>
        </summary>

        <div class="dropdown-menu flex-auto rounded-1 bg-white px-0 pt-2 pb-0 mt-0 pb-4 p-lg-4 position-relative position-lg-absolute left-0 left-lg-n4">
            <ul class="list-style-none mb-3">
                <li class="edge-item-fix"><a href="/explore" class="py-2 lh-condensed-ultra d-block link-gray-dark no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Explore">Explore GitHub <span class="Bump-link-symbol float-right text-normal text-gray-light">&rarr;</span></a></li>
            </ul>

            <h4 class="text-gray-light text-normal text-mono f5 mb-2 border-lg-top pt-lg-3">Learn & contribute</h4>
            <ul class="list-style-none mb-3">
                <li class="edge-item-fix"><a href="/topics" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Topics">Topics</a></li>
                <li class="edge-item-fix"><a href="/collections" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Collections">Collections</a></li>
                <li class="edge-item-fix"><a href="/trending" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Trending">Trending</a></li>
                <li class="edge-item-fix"><a href="https://lab.github.com/" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Learning lab">Learning Lab</a></li>

```

```
        <li class="edge-item-fix"><a href="https://opensource.guide" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Open source guides">Open source guides</a></li>
    </ul>
```

```
    <h4 class="text-gray-light text-normal text-mono f5 mb-2 border-lg-top pt-lg-3">Connect with others</h4>
```

```
    <ul class="list-style-none mb-0">
        <li class="edge-item-fix"><a href="https://github.com/events" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Events">Events</a></li>
        <li class="edge-item-fix"><a href="https://github.community" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Community forum">Community forum</a></li>
        <li class="edge-item-fix"><a href="https://education.github.com" class="py-2 pb-0 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to GitHub Education">GitHub Education</a></li>
    </ul>
</div>
</details>
</li>
```

```
    <li class="border-bottom border-lg-bottom-0 mr-0 mr-lg-3">
        <a href="/marketplace" class="HeaderMenu-link no-underline py-3 d-block d-lg-inline-block" data-ga-click="(Logged out) Header, go to Marketplace">Marketplace</a>
    </li>
```

```
    <li class="d-block d-lg-flex flex-lg-nowrap flex-lg-items-center border-bottom border-lg-bottom-0 mr-0 mr-lg-3 edge-item-fix position-relative flex-wrap flex-justify-between d-flex flex-items-center ">
        <details class="HeaderMenu-details details-overlay details-reset width-full">
            <summary class="HeaderMenu-summary HeaderMenu-link px-0 py-3 border-0 no-wrap d-block d-lg-inline-block">
                Pricing
                <svg x="0px" y="0px" viewBox="0 0 14 8" xml:space="preserve" fill="none" class="icon-chevron-down-mktg position-absolute position-lg-relative">
                    <path d="M1,116.2,6L13,1"></path>
                </svg>
            </summary>
```

```
        <div class="dropdown-menu flex-auto rounded-1 bg-white px-0 pt-2 pb-4 mt-0 p-lg-4 position-relative position-lg-absolute left-0 left-lg-n4">
            <a href="/pricing" class="pb-2 lh-condensed-ultra d-block link-gray-dark no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Pricing">Plans <span class="Bump-link-symbol float-right text-normal text-gray-light">&rarr;</span></a>
```

```
        <ul class="list-style-none mb-3">
            <li class="edge-item-fix"><a href="/pricing#feature-comparison" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Compare plans">Compare plans</a></li>
```



```
        <li class="edge-item-fix"><a href="https://enterprise.github.com/contact" class="py-2 lh-condensed-ultra d-block link-gray no-underline f5" data-ga-click="(Logged out) Header, go to Contact Sales">Contact Sales</a></li>
    </ul>
```

```
    <ul class="list-style-none mb-0 border-lg-top pt-lg-3">
        <li class="edge-item-fix"><a href="/nonprofit" class="py-2 lh-condensed-ultra d-block no-underline link-gray-dark no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Nonprofits">Nonprofit <span class="Bump-link-symbol float-right text-normal text-gray-light">&rarr;</span></a></li>
        <li class="edge-item-fix"><a href="https://education.github.com" class="py-2 pb-0 lh-condensed-ultra d-block no-underline link-gray-dark no-underline h5 Bump-link--hover" data-ga-click="(Logged out) Header, go to Education">Education <span class="Bump-link-symbol float-right text-normal text-gray-light">&rarr;</span></a></li>
    </ul>
</div>
</details>
</li>
</ul>
</nav>
```

```
<div class="d-lg-flex flex-items-center px-3 px-lg-0 text-center text-lg-left">
    <div class="d-lg-flex mb-3 mb-lg-0">
        <div class="header-search flex-self-stretch flex-lg-self-auto mr-0 mr-lg-3 mb-3 mb-lg-0 scoped-search site-scoped-search js-site-search position-relative js-jump-to"
            role="combobox"
            aria-owns="jump-to-results"
            aria-label="Search or jump to"
            aria-haspopup="listbox"
            aria-expanded="false"
        >
            <div class="position-relative">
                <!-- '" --><!-- </textarea></xmp> --></option></form><form class="js-site-search-form" role="search" aria-label="Site" data-scope-type="Repository" data-scope-id="35614280" data-scoped-search-url="/iVis-at-Bilkent/chilay/search" data-unscoped-search-url="/search" action="/iVis-at-Bilkent/chilay/search" accept-charset="UTF-8" method="get"><input name="utf8" type="hidden" value="&#x2713;" />
                <label class="form-control input-sm header-search-wrapper p-0 header-search-wrapper-jump-to position-relative d-flex flex-justify-between flex-items-center js-chromeless-input-container">
                    <input type="text"
                        class="form-control input-sm header-search-input jump-to-field js-jump-to-field js-site-search-focus js-site-search-field is-clearable"
                        data-hotkey="s/"
                        name="q"
                        value=""
                        placeholder="Search"
                        data-unscoped-placeholder="Search GitHub"
                        data-scoped-placeholder="Search"
                        autocapitalize="off"
                    >
```

```

aria-autocomplete="list"
aria-controls="jump-to-results"
aria-label="Search"
data-jump-to-suggestions-path="/_graphql/GetSuggestedNavigationDestinations#csrf-
token=FMuLEHdVJ2hgUpZdci7Z5AcsEhPFdSeDywApJ9H9wLqdrZmQ1dw6mrkzNYFltFF1xncJIdh6gBsTWzZp
QXY/wg=="
spellcheck="false"
autocomplete="off"
>
<input type="hidden" class="js-site-search-type-field" name="type" >
  

  <div class="Box position-absolute overflow-hidden d-none jump-to-suggestions js-jump-to-suggestions-
container">

<ul class="d-none js-jump-to-suggestions-template-container">

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-suggestion"
role="option">
  <a tabindex="-1" class="no-underline d-flex flex-auto flex-items-center jump-to-suggestions-path js-jump-to-
suggestion-path js-navigation-open p-2" href="">
    <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none">
      <svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-none"
title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-
rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1
1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-
2zm0-10H2v9h9V1z"/></svg>
      <svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project d-none"
title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-rule="evenodd"
d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 0-1 1v14a1 1 0
001 1h13a1 1 0 00-1-1v1a1 1 0 00-1-1z"/></svg>
      <svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-none"
title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-rule="evenodd"
d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 003 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0 2.48-.41 3.47-
1.11l3.83 3.81c.19.245.373.25 .52-.097-.3a.996.996 0 00-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-4.7-4.7 0-2.59
2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>
    </div>
    <img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src=""
width="28" height="28">
    <div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap
css-truncate css-truncate-target">
    </div>
    <div class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none js-jump-to-badge-

```

```

search">
  <span class="js-jump-to-badge-search-text-default d-none" aria-label="in this repository">
    In this repository
  </span>
  <span class="js-jump-to-badge-search-text-global d-none" aria-label="in all of GitHub">
    All GitHub
  </span>
  <span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>
</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none d-on-
nav-focus js-jump-to-badge-jump">
  Jump to
  <span class="d-inline-block ml-1 v-align-middle"></span>
</div>
</a>
</li>

</ul>

<ul class="d-none js-jump-to-no-results-template-container">
<li class="d-flex flex-justify-center flex-items-center f5 d-none js-jump-to-suggestion p-2">
  <span class="text-gray">No suggested jump to results</span>
</li>
</ul>

<ul id="jump-to-results" role="listbox" class="p-0 m-0 js-navigation-container jump-to-suggestions-results-
container js-jump-to-suggestions-results-container">

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-scoped-
search d-none" role="option">
  <a tabindex="-1" class="no-underline d-flex flex-auto flex-items-center jump-to-suggestions-path js-jump-to-
suggestion-path js-navigation-open p-2" href="">
    <div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none">
      <svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-none"
title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-
rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55-.45 1-1
1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-
2zm0-10H2v9h9V1z"/></svg>
      <svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project d-none"
title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-rule="evenodd"
d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 00-1 1v14a1 1 0
001 1h13a1 1 0 00-1 1v1a1 1 0 00-1-1z"/></svg>
      <svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-none"
title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-rule="evenodd"
d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 0013 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0 2.48-.41 3.47-
1.11l3.83 3.81c.19.245.373.25 .52-.097-.3a.996.996 0 00-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-4.7-4.7 0-2.59

```

2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>

</div>

<img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

<div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">

</div>

<div class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none js-jump-to-badge-search">

<span class="js-jump-to-badge-search-text-default d-none" aria-label="in this repository">

In this repository

</span>

<span class="js-jump-to-badge-search-text-global d-none" aria-label="in all of GitHub">

All GitHub

</span>

<span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>

</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none d-on-nav-focus js-jump-to-badge-jump">

Jump to

<span class="d-inline-block ml-1 v-align-middle"></span>

</div>

</a>

</li>

<li class="d-flex flex-justify-start flex-items-center p-0 f5 navigation-item js-navigation-item js-jump-to-global-search d-none" role="option">

<a tabindex="-1" class="no-underline d-flex flex-auto flex-items-center jump-to-suggestions-path js-jump-to-suggestion-path js-navigation-open p-2" href="">

<div class="jump-to-octicon js-jump-to-octicon flex-shrink-0 mr-2 text-center d-none">

<svg height="16" width="16" class="octicon octicon-repo flex-shrink-0 js-jump-to-octicon-repo d-none" title="Repository" aria-label="Repository" viewBox="0 0 12 16" version="1.1" role="img"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55.45 1 1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45 1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>

<svg height="16" width="16" class="octicon octicon-project flex-shrink-0 js-jump-to-octicon-project d-none" title="Project" aria-label="Project" viewBox="0 0 15 16" version="1.1" role="img"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4 4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 0-1 1v14a1 1 0 01 1h13a1 1 0 01-1V1a1 1 0 00-1-1z"/></svg>

<svg height="16" width="16" class="octicon octicon-search flex-shrink-0 js-jump-to-octicon-search d-none" title="Search" aria-label="Search" viewBox="0 0 16 16" version="1.1" role="img"><path fill-rule="evenodd" d="M15.7 13.3l-3.81-3.83A5.93 5.93 0 0013 6c0-3.31-2.69-6-6-6S1 2.69 1 6s2.69 6 6 6c1.3 0 2.48-.41 3.47-

1.1113.83 3.81c.19.2.45.3.7.3.25 0 .52-.09.7-.3a.996.996 0 000-1.41v.01zM7 10.7c-2.59 0-4.7-2.11-4.7-4.7 0-2.59 2.11-4.7 4.7-4.7 2.59 0 4.7 2.11 4.7 4.7 0 2.59-2.11 4.7-4.7 4.7z"/></svg>

</div>

<img class="avatar mr-2 flex-shrink-0 js-jump-to-suggestion-avatar d-none" alt="" aria-label="Team" src="" width="28" height="28">

<div class="jump-to-suggestion-name js-jump-to-suggestion-name flex-auto overflow-hidden text-left no-wrap css-truncate css-truncate-target">

</div>

<div class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none js-jump-to-badge-search">

<span class="js-jump-to-badge-search-text-default d-none" aria-label="in this repository">

In this repository

</span>

<span class="js-jump-to-badge-search-text-global d-none" aria-label="in all of GitHub">

All GitHub

</span>

<span aria-hidden="true" class="d-inline-block ml-1 v-align-middle"></span>

</div>

<div aria-hidden="true" class="border rounded-1 flex-shrink-0 bg-gray px-1 text-gray-light ml-1 f6 d-none d-on-nav-focus js-jump-to-badge-jump">

Jump to

<span class="d-inline-block ml-1 v-align-middle"></span>

</div>

</a>

</li>

</ul>

</div>

</label>

</form> </div>

</div>

</div>

<a href="/login?return\_to=%2FiVis-at-Bilkent%2Fchilay%2Fblob%2Fmaster%2FLICENSE.md"

class="HeaderMenu-link no-underline mr-3"

data-hydro-

click="{&quot;event\_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location\_in\_page&quot;:&quot;site header

menu&quot;,&quot;repository\_id&quot;:null,&quot;auth\_type&quot;:&quot;SIGN\_UP&quot;,&quot;client\_id&quot;ot:&quot;584359852.1572929893&quot;,&quot;originating\_request\_id&quot;:&quot;E328:68CC:1475AC2:1CA2E1A:5DF0C511&quot;,&quot;originating\_url&quot;:&quot;https://github.com/iVis-at-

```

Bilkent/chilay/blob/master/LICENSE.md&quot;,&quot;referrer&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay&quot;,&quot;user_id&quot;:null}}" data-hydro-click-
hmac="0b2cdc2d0a83c0a4ed4a90a9854234a5def09d0392f826d1821fd43c5c100c5d"
  data-ga-click="(Logged out) Header, clicked Sign in, text:sign-in">
  Sign&nbsp;in
</a>
<a href="/join?source=header-repo&amp;source_repo=iVis-at-Bilkent%2Fchilay"
  class="HeaderMenu-link d-inline-block no-underline border border-gray-dark rounded-1 px-2 py-1"
  data-hydro-
click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_pag
e&quot;:&quot;site header
menu&quot;,&quot;repository_id&quot;:null,&quot;auth_type&quot;:&quot;SIGN_UP&quot;,&quot;client_id&qu
ot;:&quot;584359852.1572929893&quot;,&quot;originating_request_id&quot;:&quot;E328:68CC:1475AC2:1CA2
E1A:5DF0C511&quot;,&quot;originating_url&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay/blob/master/LICENSE.md&quot;,&quot;referrer&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay&quot;,&quot;user_id&quot;:null}}" data-hydro-click-
hmac="0b2cdc2d0a83c0a4ed4a90a9854234a5def09d0392f826d1821fd43c5c100c5d"
  data-ga-click="(Logged out) Header, clicked Sign up, text:sign-up">
  Sign&nbsp;up
</a>
</div>
</div>
</div>
</div>
</header>

</div>

<div id="start-of-content" class="show-on-focus"></div>

<div id="js-flash-container">

</div>

<div class="application-main " data-commit-hovercards-enabled>
  <div itemscope itemtype="http://schema.org/SoftwareSourceCode" class="">
    <main >

```

```
<div class=" pagehead repohead readability-menu experiment-repo-nav pt-0 pt-lg-4 ">
  <div class="repohead-details-container clearfix container-lg p-responsive d-none d-lg-block">
```

```
    <ul class="pagehead-actions">
```

```
      <li>
```

```
        <a class="tooltipped tooltipped-s btn btn-sm btn-with-count" aria-label="You must be signed in to watch a
repository" rel="nofollow" data-hydro-
click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_pag
e&quot;:&quot;notification subscription menu
watch&quot;,&quot;repository_id&quot;:null,&quot;auth_type&quot;:&quot;LOG_IN&quot;,&quot;client_id&quo
t;:&quot;584359852.1572929893&quot;,&quot;originating_request_id&quot;:&quot;E328:68CC:1475AC2:1CA2E
1A:5DF0C511&quot;,&quot;originating_url&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay/blob/master/LICENSE.md&quot;,&quot;referrer&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay&quot;,&quot;user_id&quot;:null}}" data-hydro-click-
hmac="b5a6c2d5b5ed2b292350ebf93ab15d96ac858d41ca10b95623ae984998c841b2"
href="/login?return_to=%2FiVis-at-Bilkent%2Fchilay">
```

```
          <svg class="octicon octicon-eye v-align-text-bottom" viewBox="0 0 16 16" version="1.1" width="16"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8.06 2C3 2 0 8 0 8s3 6 8.06 6C13 14 16 8 16 8s-3-
6 7.94-6zM8 12c-2.2 0-4 1.78-4 4 0-2.2 1.8-4 4 2.22 0 4 1.8 4 0 2.22-1.78 4-4 4zm2-4c0 1.11-.89 2-2-1.11 0-
2-.89-2-2 0-1.11.89-2-2 1.11 0 2 .89 2 2"/></svg>
```

```
          Watch
```

```
        </a>   <a class="social-count" href="/iVis-at-Bilkent/chilay/watchers"
          aria-label="20 users are watching this repository">
          20
        </a>
```

```
      </li>
```

```
    <li>
```

```
      <a class="btn btn-sm btn-with-count tooltipped tooltipped-s" aria-label="You must be signed in to star a
repository" rel="nofollow" data-hydro-
click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location_in_pag
e&quot;:&quot;star
button&quot;,&quot;repository_id&quot;:35614280,&quot;auth_type&quot;:&quot;LOG_IN&quot;,&quot;client_i
d&quot;:&quot;584359852.1572929893&quot;,&quot;originating_request_id&quot;:&quot;E328:68CC:1475AC2:1
CA2E1A:5DF0C511&quot;,&quot;originating_url&quot;:&quot;https://github.com/iVis-at-
```

Bilkent/chilay/blob/master/LICENSE.md" data-hydro-click-hmac="3d093339f950c047f53e852328ca38bf7bfb35f3111f0948cd8e45b372a3df77" href="/login?return\_to=%2FVis-at-Bilkent%2Fchilay">  
<svg aria-label="star" height="16" class="octicon octicon-star v-align-text-bottom" viewBox="0 0 14 16" version="1.1" width="14" role="img"><path fill-rule="evenodd" d="M14 6l-4.9-.64L7 1 4.9 5.36 0 6l3.6 3.26L2.67 14 7 11.67 11.33 14l-.93-4.74L14 6z"/></svg>

Star  
</a>  
<a class="social-count js-social-count" href="/iVis-at-Bilkent/chilay/stargazers" aria-label="7 users starred this repository">  
7  
</a>

</li>  
  
<li>  
<a class="btn btn-sm btn-with-count tootipped tootipped-s" aria-label="You must be signed in to fork a repository" rel="nofollow" data-hydro-click="{&quot;event\_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;:{&quot;location\_in\_page&quot;:&quot;repo details fork button&quot;,&quot;repository\_id&quot;:35614280,&quot;auth\_type&quot;:&quot;LOG\_IN&quot;,&quot;client\_id&quot;:&quot;584359852.1572929893&quot;,&quot;originating\_request\_id&quot;:&quot;E328:68CC:1475AC2:1CA2E1A:5DF0C511&quot;,&quot;originating\_url&quot;:&quot;https://github.com/iVis-at-Bilkent/chilay/blob/master/LICENSE.md&quot;,&quot;referrer&quot;:&quot;https://github.com/iVis-at-Bilkent/chilay&quot;,&quot;user\_id&quot;:null}}" data-hydro-click-hmac="f07e52414114cc0261b74244b56e0d762132b0427b36617de5b683e6e3fa8814" href="/login?return\_to=%2FVis-at-Bilkent%2Fchilay">  
<svg class="octicon octicon-repo-forked v-align-text-bottom" viewBox="0 0 10 16" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M8 1a1.993 1.993 0 0-1 3.72V6L5 8 3 6V4.72A1.993 1.993 0 00 1a1.993 1.993 0 00-1 3.72V6.513 3v1.78A1.993 1.993 0 005 15a1.993 1.993 0 001-3.72V9.513-3V4.72A1.993 1.993 0 008 1zM2 4.2C1.34 4.2 8 3c-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3 10c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2zm3-10c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></svg>  
Fork  
</a>  
<a href="/iVis-at-Bilkent/chilay/network/members" class="social-count" aria-label="3 users forked this repository">  
3  
</a>  
</li>  
</ul>

<h1 class="public ">  
<svg class="octicon octicon-repo" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M4 9H3V8h1v1zm0-3H3v1h1V6zm0-2H3v1h1V4zm0-2H3v1h1V2zm8-1v12c0 .55.45 1-1 1H6v2l-1.5-1.5L3 16v-2H1c-.55 0-1-.45-1-1V1c0-.55.45-1 1-1h10c.55 0 1 .45



```
1 1zm-1 10H1v2h2v-1h3v1h5v-2zm0-10H2v9h9V1z"/></svg>
<span class="author" itemprop="author"><a class="url fn" rel="author" data-hovercard-type="organization" data-
hovercard-url="/orgs/iVis-at-Bilkent/hovercard" href="/iVis-at-Bilkent">iVis-at-Bilkent</a></span><!--
--><span class="path-divider"></span><!--
--><strong itemprop="name"><a data-pjax="#js-repo-pjax-container" href="/iVis-at-
Bilkent/chilay">chilay</a></strong>
```

```
</h1>
```

```
</div>
```

```
<nav class="hx_reponav reponav js-repo-nav js-sidenav-container-pjax container-lg p-responsive d-none d-lg-
block"
```

```
  itemscope
  itemtype="http://schema.org/BreadcrumbList"
  aria-label="Repository"
  data-pjax="#js-repo-pjax-container">
```

```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
  <a class="js-selected-navigation-item selected reponav-item" itemprop="url" data-hotkey="g c" aria-
current="page" data-selected-links="repo_source repo_downloads repo_commits repo_releases repo_tags
repo_branches repo_packages /iVis-at-Bilkent/chilay" href="/iVis-at-Bilkent/chilay">
  <div class="d-inline"><svg class="octicon octicon-code" viewBox="0 0 14 16" version="1.1" width="14"
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M9.5 3L8 4.5 11.5 8 8 11.5 9.5 13 14 8 9.5 3zm-5
0L0 8l4.5 5L6 11.5 2.5 8 6 4.5 4.5 3z"/></svg></div>
  <span itemprop="name">Code</span>
  <meta itemprop="position" content="1">
</a> </span>
```

```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
  <a itemprop="url" data-hotkey="g i" class="js-selected-navigation-item reponav-item" data-selected-
links="repo_issues repo_labels repo_milestones /iVis-at-Bilkent/chilay/issues" href="/iVis-at-
Bilkent/chilay/issues">
  <div class="d-inline"><svg class="octicon octicon-issue-opened" viewBox="0 0 14 16" version="1.1"
width="14" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M7 2.3c3.14 0 5.7 2.56 5.7 5.7s-2.56
5.7-5.7 5.7A5.71 5.71 0 011.3 8c0-3.14 2.56-5.7 5.7-5.7zM7 1C3.14 1 0 4.14 0 8s3.14 7 7 7-3.14 7-7-7-
7zm1 3H6v5h2V4zm0 6H6v2h2v-2z"/></svg></div>
  <span itemprop="name">Issues</span>
  <span class="Counter">7</span>
  <meta itemprop="position" content="2">
</a> </span>
```

```
<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
  <a data-hotkey="g p" data-skip-pjax="true" itemprop="url" class="js-selected-navigation-item reponav-item"
data-selected-links="repo_pulls checks /iVis-at-Bilkent/chilay/pulls" href="/iVis-at-Bilkent/chilay/pulls">
  <div class="d-inline"><svg class="octicon octicon-git-pull-request" viewBox="0 0 12 16" version="1.1"
width="12" height="16" aria-hidden="true"><path fill-rule="evenodd" d="M11 11.28V5c-.03-.78-.34-1.47-.94-
```

2.06C9.46 2.35 8.78 2.03 8 2H7V0L4 3I3 3V4h1c.27.02.48.11.69.31.21.2.3.42.31.69v6.28A1.993 1.993 0 0010  
15a1.993 1.993 0 001-3.72zm-1 2.92c-.66 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-  
1.2 1.2zM4 3c0-1.11-.89-2-2-2a1.993 1.993 0 00-1 3.72v6.56A1.993 1.993 0 002 15a1.993 1.993 0 001-  
3.72V4.72c.59-.34 1-.98 1-1.72zm-.8 10c0 .66-.55 1.2-1.2 1.2-.65 0-1.2-.55-1.2-1.2 0-.65.55-1.2 1.2-1.2.65 0 1.2.55  
1.2 1.2zM2 4.2C1.34 4.2.8 3.65.8 3c0-.65.55-1.2 1.2-1.2.65 0 1.2.55 1.2 1.2 0 .65-.55 1.2-1.2 1.2z"/></div>  
<span itemprop="name">Pull requests</span>  
<span class="Counter">1</span>  
<meta itemprop="position" content="3">  
</a> </span>

<a data-hotkey="g b" class="js-selected-navigation-item reponav-item" data-selected-links="repo\_projects  
new\_repo\_project repo\_project /iVis-at-Bilkent/chilay/projects" href="/iVis-at-Bilkent/chilay/projects">  
<div class="d-inline"><svg class="octicon octicon-project" viewBox="0 0 15 16" version="1.1" width="15"  
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M10 12h3V2h-3v10zm-4-2h3V2H6v8zm-4  
4h3V2H2v12zm-1 1h13V1H1v14zM14 0H1a1 1 0 00-1 1v14a1 1 0 001 1h13a1 1 0 001-1V1a1 1 0 00-1-  
1z"/></div>  
Projects  
<span class="Counter" >0</span>  
</a>

<a data-skip-pjax="true" class="js-selected-navigation-item reponav-item" data-selected-links="security alerts  
policy code\_scanning /iVis-at-Bilkent/chilay/security/advisories" href="/iVis-at-Bilkent/chilay/security/advisories">  
<div class="d-inline"><svg class="octicon octicon-shield" viewBox="0 0 14 16" version="1.1" width="14"  
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M0 217-2 7 2v6.02C14 12.69 8.69 16 7 16c-1.69 0-7-  
3.31-7-7.98V2zm1 .75L7 116 1.75v5.268C13 12.104 8.449 15 7 15c-1.449 0-6-2.896-6-6.982V2.75zm1 .75L7  
2v12c-1.207 0-5-2.482-5-5.985V3.5z"/></div>  
Security  
</a>

<a class="js-selected-navigation-item reponav-item" data-selected-links="repo\_graphs repo\_contributors  
dependency\_graph pulse people /iVis-at-Bilkent/chilay/pulse" href="/iVis-at-Bilkent/chilay/pulse">  
<div class="d-inline"><svg class="octicon octicon-graph" viewBox="0 0 16 16" version="1.1" width="16"  
height="16" aria-hidden="true"><path fill-rule="evenodd" d="M16 14v1H0V0h1v14h15zM5 13H3V8h2v5zm4  
0H7V3h2v10zm4 0h-2V6h2v7z"/></div>  
Insights  
</a>

</nav>

<div class="reponav-wrapper reponav-small d-lg-none">  
<nav class="reponav js-reponav text-center no-wrap"  
itemscope  
itemtype="http://schema.org/BreadcrumbList">

<span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">  
<a class="js-selected-navigation-item selected reponav-item" itemprop="url" aria-current="page" data-selected-  
links="repo\_source repo\_downloads repo\_commits repo\_releases repo\_tags repo\_branches repo\_packages /iVis-at-

```

Bilkent/chilay" href="/iVis-at-Bilkent/chilay">
  <span itemprop="name">Code</span>
  <meta itemprop="position" content="1">
</a> </span>

  <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
    <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_issues
repo_labels repo_milestones /iVis-at-Bilkent/chilay/issues" href="/iVis-at-Bilkent/chilay/issues">
      <span itemprop="name">Issues</span>
      <span class="Counter">7</span>
      <meta itemprop="position" content="2">
</a> </span>

  <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
    <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_pulls checks
/iVis-at-Bilkent/chilay/pulls" href="/iVis-at-Bilkent/chilay/pulls">
      <span itemprop="name">Pull requests</span>
      <span class="Counter">1</span>
      <meta itemprop="position" content="3">
</a> </span>

  <span itemscope itemtype="http://schema.org/ListItem" itemprop="itemListElement">
    <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="repo_projects
new_repo_project repo_project /iVis-at-Bilkent/chilay/projects" href="/iVis-at-Bilkent/chilay/projects">
      <span itemprop="name">Projects</span>
      <span class="Counter">0</span>
      <meta itemprop="position" content="4">
</a> </span>

  <a itemprop="url" class="js-selected-navigation-item reponav-item" data-selected-links="security alerts policy
code_scanning /iVis-at-Bilkent/chilay/security/advisories" href="/iVis-at-Bilkent/chilay/security/advisories">
    <span itemprop="name">Security</span>
    <meta itemprop="position" content="6">
</a>
  <a class="js-selected-navigation-item reponav-item" data-selected-links="pulse /iVis-at-Bilkent/chilay/pulse"
href="/iVis-at-Bilkent/chilay/pulse">
    Pulse
  </a>

</nav>
</div>

</div>
<div class="container-lg clearfix new-discussion-timeline experiment-repo-nav p-responsive">
  <div class="repository-content ">

```

```

<a class="d-none js-permalink-shortcut" data-hotkey="y" href="/iVis-at-
Bilkent/chilay/blob/605e77732a6f06da2081e2d89a68084c1e508cdb/LICENSE.md">Permalink</a>

<!-- blob contrib key: blob_contributors:v21:5469f70287390c48912afc5e78a64d47 -->
  <div class="signup-prompt-bg rounded-1">
    <div class="signup-prompt p-4 text-center mb-4 rounded-1">
      <div class="position-relative">
        <!-- "" --><!-- </textarea></xmp> --></option></form><form action="/prompt_dismissals/signup" accept-
charset="UTF-8" method="post"><input name="utf8" type="hidden" value="#x2713;" /><input type="hidden"
name="_method" value="put" /><input type="hidden" name="authenticity_token"
value="7gdmLa9rRCxXz584UOLsCRX0BTE1HAIXdsv33UU/iG7dgg7bb7sA3D3bkAYaUIM/Ammc8F6wHGnYa
Vj49NjyUg==" />
        <button type="submit" class="position-absolute top-0 right-0 btn-link link-gray" data-ga-click="(Logged out)
Sign up prompt, clicked Dismiss, text:dismiss">
          Dismiss
        </button>
      </div>
    </div>
  </form>
  <h3 class="pt-2">Join GitHub today</h3>
  <p class="col-6 mx-auto">GitHub is home to over 40 million developers working together to host and review
code, manage projects, and build software together.</p>
  <a class="btn btn-primary" data-hydro-
click="{&quot;event_type&quot;:&quot;authentication.click&quot;,&quot;payload&quot;::{&quot;location_in_pag
e&quot;:&quot;files signup
prompt&quot;,&quot;repository_id&quot;:null,&quot;auth_type&quot;:&quot;SIGN_UP&quot;,&quot;client_id&quot;
&quot;:&quot;584359852.1572929893&quot;,&quot;originating_request_id&quot;:&quot;E328:68CC:1475AC2:1CA
2E1A:5DF0C511&quot;,&quot;originating_url&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay/blob/master/LICENSE.md&quot;,&quot;referrer&quot;:&quot;https://github.com/iVis-at-
Bilkent/chilay&quot;,&quot;user_id&quot;:null}" data-hydro-click-
hmac="c20e8a232138e28785a235690ff35fe18a7e61dd2f108461e5726461d5c344c1" data-ga-click="(Logged out)
Sign up prompt, clicked Sign up, text:sign-up" href="/join?source=prompt-blob-show&amp;source_repo=iVis-at-
Bilkent%2Fchilay">Sign up</a>
  </div>
</div>
</div>

<div class="d-flex flex-items-start flex-shrink-0 pb-3 flex-column flex-md-row">
  <span class="d-flex flex-justify-between width-full width-md-auto">

<details class="details-reset details-overlay select-menu branch-select-menu hx_rsm" id="branch-select-menu">
<summary class="btn btn-sm select-menu-button css-truncate"
  data-hotkey="w"

```

```

        title="Switch branches or tags">
<i>Branch:</i>
<span class="css-truncate-target" data-menu-button>master</span>
</summary>

<details-menu class="select-menu-modal hx_rsm-modal position-absolute" style="z-index: 99;" src="/iVis-at-Bilkent/chilay/refs/master/LICENSE.md?source_action=show&source_controller=blob" preload>
  <include-fragment class="select-menu-loading-overlay anim-pulse">
    <svg height="32" class="octicon octicon-octoface" viewBox="0 0 16 16" version="1.1" width="32" aria-hidden="true"><path fill-rule="evenodd" d="M14.7 5.34c.13-.32.55-1.59.13-3.31 0 0-1.05-.33-3.44 1.3-1-.28-2.07-.32-3.13-.32s-2.13.04-3.13.32c-.239-1.64-3.44-1.3-3.44-1.3-.68 1.72-.26 2.99-.13 3.31C.49 6.21 0 7.33 0 8.69 0 13.84 3.33 15 7.98 15S16 13.84 16 8.69c0-1.36-.49-2.48-1.3-3.35z" data-bbox="14.7 5.34 16 8.69"/>
  </include-fragment>
</details-menu>
</details>

<div class="BtnGroup flex-shrink-0 d-md-none">
  <a href="/iVis-at-Bilkent/chilay/find/master"
    class="js-pjax-capture-input btn btn-sm BtnGroup-item"
    data-pjax
    data-hotkey="t">
    Find file
  </a>
  <clipboard-copy value="LICENSE.md" class="btn btn-sm BtnGroup-item">
    Copy path
  </clipboard-copy>
</div>
</span>
<h2 id="blob-path" class="breadcrumb flex-auto min-width-0 text-normal flex-md-self-center ml-md-2 mr-md-3 my-2 my-md-0">
  <span class="js-repo-root text-bold"><span class="js-path-segment"><a data-pjax="true" href="/iVis-at-Bilkent/chilay"><span>chilay</span></a></span></span><span class="separator"></span><strong class="final-path">LICENSE.md</strong>
</h2>

<div class="BtnGroup flex-shrink-0 d-none d-md-inline-block">
  <a href="/iVis-at-Bilkent/chilay/find/master"
    class="js-pjax-capture-input btn btn-sm BtnGroup-item"
    data-pjax
    data-hotkey="t">
    Find file
  </a>
  <clipboard-copy value="LICENSE.md" class="btn btn-sm BtnGroup-item">
    Copy path
  </clipboard-copy>

```

</div>

</div>

<div class="Box mb-3 clearfix">

<div class="d-flex flex-column flex-md-row">

<div class="p-3 col-md-6">

<svg height="32" class="octicon octicon-law text-gray-dark float-left mr-2" viewBox="0 0 14 16" version="1.1" width="28" aria-hidden="true"><path fill-rule="evenodd" d="M7 4c-.83 0-1.5-.67-1.5-1.5S6.17 1 7 1s1.5.67 1.5 1.5S7.83 4 7 4zm7 6c0 1.11-.89 2-2 2h-1c-1.11 0-2-.89-2-2l2-4h-1c-.55 0-1-.45-1-1H8v8c.42 0 1 .45 1 1h1c.42 0 1 .45 1 1H3c0-.55.58-1 1-1h1c0-.55.58-1 1-1h.03L6 5H5c0 .55-.45 1-1 1H3l2 4c0 1.11-.89 2-2 2H2c-1.11 0-2-.89-2-2l2-4H1V5h3c0-.55.45-1 1-1h4c.55 0 1 .45 1 1h3v1h-1l2 4zM2.5 7L1 10h3L2.5 7zM13 10l-1.5-3-1.5 3h3z"/></svg>

<p class="text-small text-gray mb-0 lh-condensed-ultra">

iVis-at-Bilkent/chilay is licensed under the

</p>

<h3 class="mt-0 mb-2 h4">MIT License</h3>

<p class="mb-0 text-gray text-small pr-2">A short and simple permissive license with conditions only requiring preservation of copyright and license notices. Licensed works, modifications, and larger works may be distributed under different terms and without source code.</p>

</div>

<div class="d-flex px-3 col-md-6 flex-column flex-sm-row pb-sm-3">

<div class="pb-3 col-sm-4 pt-md-2">

<h4 class="mt-1 mb-2 h5">Permissions</h4>

<ul class="list-style-none">

<li class="text-small pl-3">

<svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>

<span class="v-align-middle" title="This software and derivatives may be used for commercial purposes.">

Commercial use

</span>

</li>

<li class="text-small pl-3">

<svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>

<span class="v-align-middle" title="This software may be modified.">

Modification

</span>

</li>

<li class="text-small pl-3">

<svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16" version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 5l-8 4-4 1.5-1.5L4 10l6.5-6.5L12 5z"/></svg>

```
<span class="v-align-middle" title="This software may be distributed.">
  Distribution
</span>
</li>
<li class="text-small pl-3">
  <svg width="13" class="octicon octicon-check text-green ml-n3 v-align-middle" viewBox="0 0 12 16"
version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M12 51-8 8-4-4 1.5-1.5L4 1016.5-
6.5L12 5z"/></svg>
  <span class="v-align-middle" title="This software may be used and modified in private.">
    Private use
  </span>
</li>
</ul>
</div>
<div class="pb-3 col-sm-4 pt-md-2">
  <h4 class="mt-1 mb-2 h5">Limitations</h4>
  <ul class="list-style-none">
    <li class="text-small pl-3">
      <svg width="13" class="octicon octicon-x text-red ml-n3 v-align-middle" viewBox="0 0 12 16"
version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 813.75 3.75-1.48 1.48L6 9.481-
3.75 3.75-1.48-1.48L4.52 8 .77 4.2511.48-1.48L6 6.5213.75-3.75 1.48 1.48L7.48 8z"/></svg>
      <span class="v-align-middle" title="This license includes a limitation of liability.">
        Liability
      </span>
</li>
<li class="text-small pl-3">
      <svg width="13" class="octicon octicon-x text-red ml-n3 v-align-middle" viewBox="0 0 12 16"
version="1.1" height="17" aria-hidden="true"><path fill-rule="evenodd" d="M7.48 813.75 3.75-1.48 1.48L6 9.481-
3.75 3.75-1.48-1.48L4.52 8 .77 4.2511.48-1.48L6 6.5213.75-3.75 1.48 1.48L7.48 8z"/></svg>
      <span class="v-align-middle" title="The license explicitly states that it does NOT provide any warranty.">
        Warranty
      </span>
</li>
</ul>
</div>
<div class="pb-3 col-sm-4 pt-md-2">
  <h4 class="mt-1 mb-2 h5">Conditions</h4>
  <ul class="list-style-none">
    <li class="text-small pl-3">
      <svg width="13" class="octicon octicon-info text-blue ml-n3 v-align-middle" viewBox="0 0 14 16"
version="1.1" height="14" aria-hidden="true"><path fill-rule="evenodd" d="M6.3 5.69a.942.942 0 01-.28-.7c0-
.28.09-.52.28-.7.19-.18.42-.28.7-.28.28 0 .52.09.7.28.19.28.42.28.7 0 .28-.09.52-.28.7a1 1 0 01-.7.3c-.28 0-.52-
.11-.7-.3zM8 7.99c-.02-.25-.11-.48-.31-.69-.2-.19-.42-.3-.69-.31H6c-.27.02-.48.13-.69.31-.2.2-.3.44-
.31.69h1v3c.02.27.11.53.31.69.2.2.42.31.69.31h1c.27 0 .48-.11.69-.31.2-.19.3-.42.31-.69H8V7.98v.01zM7 2.3c-3.14
0-5.7 2.54-5.7 5.68 0 3.14 2.56 5.7 5.7 5.7s5.7-2.55 5.7-5.7c0-3.15-2.56-5.69-5.7-5.69v.01zM7 .98c3.86 0 7 3.14 7
7s-3.14 7-7 7-7-3.12-7-7 3.14-7 7-7z"/></svg>
      <span class="v-align-middle" title="A copy of the license and copyright notice must be included with the
software.">
```

```

        License and copyright notice
    </span>
</li>
</ul>
</div>
</div>
</div>
<p class="text-gray text-small mb-0 border-top col-12 float-left p-2 px-sm-3">
    This is not legal advice.
    <a href="https://help.github.com/articles/licensing-a-repository/#disclaimer">Learn more about repository
    licenses</a>.
</p>
</div>

```

```

<div class="Box Box--condensed d-flex flex-column flex-shrink-0">
    <div class="Box-body d-flex flex-justify-between bg-blue-light flex-column flex-md-row flex-items-start flex-
    md-items-center">
        <span class="pr-md-4 f6">
            <a rel="contributor" data-skip-pjax="true" data-hovercard-type="user" data-hovercard-
            url="/users/ugurdogrusoz/hovercard" data-octo-click="hovercard-link-click" data-octo-dimensions="link_type:self"
            href="/ugurdogrusoz"></a>
            <a class="text-bold link-gray-dark lh-default v-align-middle" rel="contributor" data-hovercard-type="user"
            data-hovercard-url="/users/ugurdogrusoz/hovercard" data-octo-click="hovercard-link-click" data-octo-
            dimensions="link_type:self" href="/ugurdogrusoz">ugurdogrusoz</a>
            <span class="lh-default v-align-middle">
                <a data-pjax="true" title="Create LICENSE.md" class="link-gray" href="/iVis-at-
                Bilkent/chilay/commit/b9d4ba2dc6d35a9fc64027a93f7d96b0519d42f5">Create LICENSE.md</a>
            </span>
            </span>
            <span class="d-inline-block flex-shrink-0 v-align-bottom f6 mt-2 mt-md-0">
                <a class="pr-2 text-mono link-gray" href="/iVis-at-
                Bilkent/chilay/commit/b9d4ba2dc6d35a9fc64027a93f7d96b0519d42f5" data-pjax>b9d4ba2</a>
                <relative-time datetime="2019-09-04T10:53:30Z" class="no-wrap">Sep 4, 2019</relative-time>
            </span>
        </div>
    </div>

```

```

<div class="Box-body d-flex flex-items-center flex-auto f6 border-bottom-0 flex-wrap" >
    <details class="details-reset details-overlay details-overlay-dark lh-default text-gray-dark float-left mr-2"
    id="blob_contributors_box">
        <summary class="btn-link">
            <span><strong>1</strong> contributor</span>
        </summary>
    </details-dialog

```



```
class="Box Box--overlay d-flex flex-column anim-fade-in fast"
aria-label="Users who have contributed to this file"
src="/iVis-at-Bilkent/chilay/contributors-list/master/LICENSE.md" preload>
<div class="Box-header">
  <button class="Box-btn-octicon btn-octicon float-right" type="button" aria-label="Close dialog" data-close-
dialog>
    <svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75 3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>
  </button>
  <h3 class="Box-title">
    Users who have contributed to this file
  </h3>
</div>
<include-fragment class="octocat-spinner my-3" aria-label="Loading..."></include-fragment>
</details-dialog>
</details>
</div>
</div>
```

```
<div class="Box mt-3 position-relative">
```

```
<div class="Box-header py-2 d-flex flex-column flex-shrink-0 flex-md-row flex-md-items-center">
<div class="text-mono f6 flex-auto pr-3 flex-order-2 flex-md-order-1 mt-2 mt-md-0">
```

```
  21 lines (17 sloc)
```

```
  <span class="file-info-divider"></span>
```

```
  1.05 KB
```

```
</div>
```

```
<div class="d-flex py-1 py-md-0 flex-auto flex-order-1 flex-md-order-2 flex-sm-grow-0 flex-justify-between">
```

```
  <div class="BtnGroup">
```

```
    <a id="raw-url" class="btn btn-sm BtnGroup-item" href="/iVis-at-
Bilkent/chilay/raw/master/LICENSE.md">Raw</a>
```

```
    <a class="btn btn-sm js-update-url-with-hash BtnGroup-item" data-hotkey="b" href="/iVis-at-
Bilkent/chilay/blame/master/LICENSE.md">Blame</a>
```

```
    <a rel="nofollow" class="btn btn-sm BtnGroup-item" href="/iVis-at-
Bilkent/chilay/commits/master/LICENSE.md">History</a>
```

```
  </div>
```

```
</div>
```

```
  <a class="btn-octicon tooltiped tooltiped-nw"
```

```
href="https://desktop.github.com"
aria-label="Open this file in GitHub Desktop"
data-ga-click="Repository, open with desktop, type:mac">
  <svg class="octicon octicon-device-desktop" viewBox="0 0 16 16" version="1.1" width="16" height="16"
aria-hidden="true"><path fill-rule="evenodd" d="M15 2H1c-.55 0-1 .45-1 1v9c0 .55 1 1 1h5.34c-.25 61-.86
1.39-2.34 2h8c-1.48-.61-2.09-1.39-2.34-2H15c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm0 9H1V3h14v8z"/></svg>
</a>

<button type="button" class="btn-octicon disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
  <svg class="octicon octicon-pencil" viewBox="0 0 14 16" version="1.1" width="14" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M0 12v3h3l8-3-3-8 8zm3 2H1v-2h1v1h1v1zm10.3-9.3L12 6 9
3l1.3-1.3a.996.996 0 011.41 0l1.59 1.59c.39.39.39 1.02 0 1.41z"/></svg>
</button>

<button type="button" class="btn-octicon btn-octicon-danger disabled tooltiped tooltiped-nw"
aria-label="You must be signed in to make or propose changes">
  <svg class="octicon octicon-trashcan" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M11 2H9c0-.55-.45-1-1H5c-.55 0-1 .45-1 1H2c-.55 0-1 .45-1 1v1c0
.55 1 1 1v9c0 .55 1 1 1h7c.55 0 1-.45 1-1V5c.55 0 1-.45 1-1V3c0-.55-.45-1-1-1zm-1
12H3V5h1v8h1V5h1v8h1V5h1v9zm1-10H2V3h9v1z"/></svg>
</button>
</div>
</div>
</div>
```

```
<div id="readme" class="Box-body readme blob js-code-block-container">
  <article class="markdown-body entry-content p-3 p-md-6" itemprop="text"><p>MIT License</p>
<p>Copyright (c) 2019 iVis-at-Bilkent</p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:</p>
<p>The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.</p>
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.</p>
</article>
```

</div>

</div>

```
<details class="details-reset details-overlay details-overlay-dark">
  <summary data-hotkey="l" aria-label="Jump to line"></summary>
  <details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast linejump" aria-label="Jump to
line">
  <!-- "" --><!-- </textarea></xmp> --></option></form><form class="js-jump-to-line-form Box-body d-flex"
action="" accept-charset="UTF-8" method="get"><input name="utf8" type="hidden" value="&#x2713;" />
  <input class="form-control flex-auto mr-3 linejump-input js-jump-to-line-field" type="text" placeholder="Jump
to line&hellip;" aria-label="Jump to line" autofocus>
  <button type="submit" class="btn" data-close-dialog>Go</button>
</form> </details-dialog>
</details>
```

</div>

</div>

</main>

</div>

</div>

```
<div class="footer container-lg width-full p-responsive" role="contentinfo">
  <div class="position-relative d-flex flex-row-reverse flex-lg-row flex-wrap flex-lg-nowrap flex-justify-center flex-
lg-justify-between pt-6 pb-2 mt-6 f6 text-gray border-top border-gray-light ">
  <ul class="list-style-none d-flex flex-wrap col-12 col-lg-5 flex-justify-center flex-lg-justify-between mb-2 mb-lg-
0">
    <li class="mr-3 mr-lg-0">&copy; 2019 GitHub, Inc.</li>
    <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to terms, text:terms"
href="https://github.com/site/terms">Terms</a></li>
    <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to privacy, text:privacy"
href="https://github.com/site/privacy">Privacy</a></li>
    <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to security, text:security"
href="https://github.com/security">Security</a></li>
    <li class="mr-3 mr-lg-0"><a href="https://githubstatus.com/" data-ga-click="Footer, go to status,
text:status">Status</a></li>
    <li><a data-ga-click="Footer, go to help, text:help" href="https://help.github.com">Help</a></li>
  </ul>

  <a aria-label="Homepage" title="GitHub" class="footer-octicon d-none d-lg-block mx-lg-4"
```

```
href="https://github.com">
  <svg height="24" class="octicon octicon-mark-github" viewBox="0 0 16 16" version="1.1" width="24" aria-
hidden="true"><path fill-rule="evenodd" d="M8 0C3.58 0 0 3.58 0 8c0 3.54 2.29 6.53 5.47 7.59 4.07 55-.17 55-.38
0-.19-.01-.82-.01-1.49-2.01 37-2.53-.49-2.69-.94-.09-.23-.48-.94-.82-1.13-.28-.15-.68-.52-.01-.53 63-.01 1.08 58
1.23 82.72 1.21 1.87 87 2.33 66.07-.52 28-.87 51-1.07-1.78-.2-3.64-.89-3.64-3.95 0-.87 31-1.59 82-2.15-.08-.2-.36-
1.02 08-2.12 0 0 .67-.21 2.2 82.64-.18 1.32-.27 2-.27 68 0 1.36 09 2 .27 1.53-1.04 2.2-.82 2.2-.82 44 1.1 16 1.92 08
2.12 51 56 82 1.27 82 2.15 0 3.07-1.87 3.75-3.65 3.95 29 25 54 73 54 1.48 0 1.07-.01 1.93-.01 2 2 0
.21 15 46 55 38 8 0 13 8 0 13 0 0 0 16 8c0 4 42 3 58 8 8 8z"/></svg>
</a>
  <ul class="list-style-none d-flex flex-wrap col-12 col-lg-5 flex-justify-center flex-lg-justify-between mb-2 mb-lg-
0">
    <li class="mr-3 mr-lg-0"><a data-ga-click="Footer, go to contact, text:contact"
href="https://github.com/contact">Contact GitHub</a></li>
    <li class="mr-3 mr-lg-0"><a href="https://github.com/pricing" data-ga-click="Footer, go to Pricing,
text:Pricing">Pricing</a></li>
    <li class="mr-3 mr-lg-0"><a href="https://developer.github.com" data-ga-click="Footer, go to api,
text:api">API</a></li>
    <li class="mr-3 mr-lg-0"><a href="https://training.github.com" data-ga-click="Footer, go to training,
text:training">Training</a></li>
    <li class="mr-3 mr-lg-0"><a href="https://github.blog" data-ga-click="Footer, go to blog,
text:blog">Blog</a></li>
    <li><a data-ga-click="Footer, go to about, text:about" href="https://github.com/about">About</a></li>
  </ul>
</div>
<div class="d-flex flex-justify-center pb-6">
  <span class="f6 text-gray-light"></span>
</div>
</div>
```

```
<div id="ajax-error-message" class="ajax-error-message flash flash-error">
  <svg class="octicon octicon-alert" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M8 8.93 1.5c-.183-.31-.52-.5-.887-.5s-.703 19-.886 5L138
13 499a 98.98 0 000 1.001c 193.31 53 501 886 501h13 964c 367 0 704 19 877 5a 1 03 1 03 0 00 01-1 002L 8 893
1 5zm 133 11 497H6 987v 2 003h2 039v2 003zm 0 3 004H6 987V5 987h2 039v4 006z"/></svg>
  <button type="button" class="flash-close js-ajax-error-dismiss" aria-label="Dismiss error">
    <svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-
hidden="true"><path fill-rule="evenodd" d="M7 48 13 75 3 75 1 48L6 9 48 1 48L4 52 8 77
4 25 11 48L6 6 52 13 75 3 75 1 48L7 48 8z"/></svg>
  </button>
  You cant perform that action at this time.
</div>
```

```
<script crossorigin="anonymous" integrity="sha512-
```

70iNd/Gg+yLXPfcelP5Zr8W3AA2fp2GsH2O/ZLbKoNOS51UGEKF/twbq+aS7x15R9F80cENGRgErdVG5frxqQ  
==" type="application/javascript" src="https://github.githubassets.com/assets/frameworks-ef488d77.js"></script>

<script crossorigin="anonymous" async="async" integrity="sha512-  
zfhpmK5/eY3WaaOaHic6RIaeUtntjJbHUILU6uv3gFglx3Tfeyu3Y880GgCNhbIT3TT3+jbXVNBiVLoli3eq7Q=="  
type="application/javascript" src="https://github.githubassets.com/assets/github-bootstrap-cdf86998.js"></script>

<div class="js-stale-session-flash flash flash-warn flash-banner" hidden  
>  
<svg class="octicon octicon-alert" viewBox="0 0 16 16" version="1.1" width="16" height="16" aria-  
hidden="true"><path fill-rule="evenodd" d="M8.893 1.5c-.183-.31-.52-.5-.887-.5s-.703.19-.886.5L138  
13.499a.98.98 0 00 1.001c.193.31.53.501.886.501h13.964c.367 0 .704-.19.877-.5a1.03 1.03 0 00.01-1.002L8.893  
1.5zm.133 11.497H6.987v-2.003h2.003zm0-3.004H6.987V5.987h2.039v4.006z"/></svg>  
<span class="js-stale-session-flash-signed-in" hidden>You signed in with another tab or window. <a  
href="">Reload</a> to refresh your session.</span>  
<span class="js-stale-session-flash-signed-out" hidden>You signed out in another tab or window. <a  
href="">Reload</a> to refresh your session.</span>  
</div>  
<template id="site-details-dialog">  
<details class="details-reset details-overlay details-overlay-dark lh-default text-gray-dark hx\_rsm" open>  
<summary role="button" aria-label="Close dialog"></summary>  
<details-dialog class="Box Box--overlay d-flex flex-column anim-fade-in fast hx\_rsm-dialog hx\_rsm-modal">  
<button class="Box-btn-octicon m-0 btn-octicon position-absolute right-0 top-0" type="button" aria-  
label="Close dialog" data-close-dialog>  
<svg class="octicon octicon-x" viewBox="0 0 12 16" version="1.1" width="12" height="16" aria-  
hidden="true"><path fill-rule="evenodd" d="M7.48 8l3.75-1.48 1.48L6 9.48l-3.75 3.75-1.48-1.48L4.52 8 .77  
4.25l1.48-1.48L6 6.52l3.75-3.75 1.48 1.48L7.48 8z"/></svg>  
</button>  
<div class="octocat-spinner my-6 js-details-dialog-spinner"></div>  
</details-dialog>  
</details>  
</template>  
  
<div class="Popover js-hovercard-content position-absolute" style="display: none; outline: none;" tabindex="0">  
<div class="Popover-message Popover-message--bottom-left Popover-message--large Box box-shadow-large"  
style="width:360px;">  
</div>  
</div>  
  
<div aria-live="polite" class="js-global-screen-reader-notice sr-only"></div>  
  
</body>  
</html>

# 1.129 asm-analysis 6.2.1

# 1.130 jcifs 1.3.18

# 1.131 neko-htmlunit 2.33

# 1.132 lucene-backward-codecs 5.5.5

## 1.132.1 Available under license :

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- Apache Commons
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ICU4J, (under analysis/icu) is licensed under an MIT styles license  
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Some data files (under analysis/icu/src/data) are derived from Unicode data such  
as the Unicode Character Database. See <http://unicode.org/copyright.html> for more  
details.

Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is  
BSD-licensed, created by Anders Miller. See <http://www.brics.dk/automaton/>

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were  
automatically generated with the moman/finenight FSA library, created by  
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see <http://sites.google.com/site/rrettesite/moman> and  
<http://bitbucket.org/jpbarrette/moman/overview/>

The class org.apache.lucene.util.WeakIdentityMap was derived from

the Apache CXF project and is Apache License 2.0.

The Google Code Prettify is Apache License 2.0.

See <http://code.google.com/p/google-code-prettify/>

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See <http://junit.sourceforge.net/cpl-v10.html>

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g Package (jaspell): <http://jaspell.sourceforge.net/>

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The snowball stemmers in

<analysis/common/src/java/net/sf/snowball>

were developed by Martin Porter and Richard Boulton.

The snowball stopword lists in

<analysis/common/src/resources/org/apache/lucene/analysis/snowball>

were developed by Martin Porter and Richard Boulton.

The full snowball package is available from

<http://snowball.tartarus.org/>

The KStem stemmer in

<analysis/common/src/org/apache/lucene/analysis/en>

was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)

under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default  
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

<analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt>,

<analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt>,

<analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt>,

<analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt>,

<analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt>

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
Ljiljana Dolamic. These files reside in:

<analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java>

<analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java>

analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`. See <http://project.carrot2.org/license.html>.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

WordBreakTestUnicode\_\*.java (under `modules/analysis/common/src/test/`) is derived from Unicode data such as the Unicode Character Database. See <http://unicode.org/copyright.html> for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (<http://morfologik.blogspot.com/>).

Morfologik uses data from Polish `ispell/myspell` dictionary (<http://www.sjp.pl/slownik/en/>) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (<http://sgjp.pl/morfeusz/>)

Servlet-api.jar and javax.servlet-\*.jar are under the CDDL license, the original source code for this can be found at <http://www.eclipse.org/jetty/downloads.php>

=====  
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration  
=====

This software includes a binary and/or source version of data from

`mecab-ipadic-2.7.0-20070801`

which can be obtained from

<http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz>

or

<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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\* <https://github.com/eclipse-ee4j/jaxb-api>

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

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\* org.eclipse.jetty.orbit:javafx.security.auth.message

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications 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

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

org.mortbay.jasper:apache-el  
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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.137 animal-sniffer-annotation 1.14

## 1.138 jaxb-api 2.3.1

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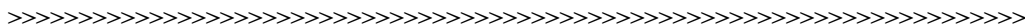
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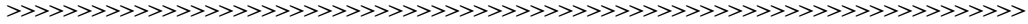
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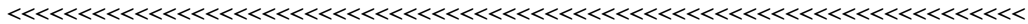
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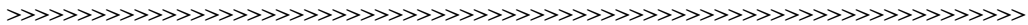


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## **1.140 hibernate-entitymanager 5.2.16**

## **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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# 1.145 apache-httpclient 4.5.7

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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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```

```
~
```

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```

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

  <property
name="hibernate.validator.constraint_mapping_contributor">org.hibernate.validator.test.cfg.ConstraintMappingCon
tributorConfiguredInValidationXmlTest$MyConstraintMappingContributor1</property>
  <property
name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingCo
ntributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>
</validation-config>
```

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Yanming Zhou  
Yoann Rodire

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

```
<!--
```

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

```
~
```

```
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```

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```

```
-->
```

```
<validation-config
```

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

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

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

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

```
  <property
```

```
    name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingCo  
ntributorConfiguredInValidationXmlTest$MyConstraintMappingContributor1,org.hibernate.validator.test.cfg.Const  
rainerMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>
```

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

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

```
<!--
```

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

```
~
```

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```

```
-->
```

```
<validation-config
```

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

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

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

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

```
<property
name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.integration.wildfly.MyConstra
intMappingContributor</property>
</validation-config>
```

=====

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## 1.147 spring-security-config 5.1.4

## 1.148 xml-commons-resolver 1.2

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# 1.150 commons-net 3.5

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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).

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## 1.156 jetty-io 9.4.18.v20190429

## 1.157 byte-buddy 1.9.10

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\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper  
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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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org.eclipse.jetty.toolchain:jetty-schemas

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<feature
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license file.txt contents

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licenseURL=file1.txt

license=License - The More The Merrier.

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

```
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
```

```
xmlns="http://maven.apache.org/POM/4.0.0"
```

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

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
```

```
<groupId>licenseFeature</groupId>
```

```
<artifactId>licenseFeature</artifactId>
```

```
<version>1.0.0-SNAPSHOT</version>
```

```
</parent>
```

```
<artifactId>feature.license</artifactId>
```

```
<packaging>eclipse-feature</packaging>
```

```
</project>
```

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv=Content-Type content="text/html; charset=iso-8859-1">
```

```
<title>Eclipse.org Software User Agreement</title>
```

```
</head>
```

```
<body lang="EN-US" link=blue vlink=purple>
```

```
<h2>Eclipse Foundation Software User Agreement</h2>
```

```
<p>March 17, 2005</p>
```

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

<feature

id="license"

label="license"

version="1.0.0.qualifier">

</feature>

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2000-05-05

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

<head>
<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
<meta name=ProgId content=Word.Document>
<meta name=Generator content="Microsoft Word 9">
<meta name=Originator content="Microsoft Word 9">
<link rel=File-List
href="/Eclipse%20EPL%202003_11_10%20Final_files/filelist.xml">
<title>Eclipse Public License - Version 1.0</title>
<!--[if gte mso 9]><xml>
<o:DocumentProperties>
<o:Revision>2</o:Revision>
<o:TotalTime>3</o:TotalTime>
<o:Created>2004-03-05T23:03:00Z</o:Created>
<o:LastSaved>2004-03-05T23:03:00Z</o:LastSaved>
<o:Pages>4</o:Pages>
<o:Words>1626</o:Words>
<o:Characters>9270</o:Characters>
<o:Lines>77</o:Lines>
<o:Paragraphs>18</o:Paragraphs>
<o:CharactersWithSpaces>11384</o:CharactersWithSpaces>
<o:Version>9.4402</o:Version>
</o:DocumentProperties>
</xml><![endif]--><!--[if gte mso 9]><xml>
<w:WordDocument>
<w:TrackRevisions/>
</w:WordDocument>
</xml><![endif]-->
<style>
<!--
```

```

/* Font Definitions */
@font-face
{font-family:Tahoma;
panose-1:2 11 6 4 3 5 4 4 2 4;
mso-font-charset:0;
mso-generic-font-family:swiss;
mso-font-pitch:variable;
mso-font-signature:553679495 -2147483648 8 0 66047 0;}
/* Style Definitions */
p.MsoNormal, li.MsoNormal, div.MsoNormal
{mso-style-parent:"";
margin:0in;
margin-bottom:.0001pt;
mso-pagination:widow-orphan;
font-size:12.0pt;
font-family:"Times New Roman";
mso-fareast-font-family:"Times New Roman";}

p
{margin-right:0in;
mso-margin-top-alt:auto;
mso-margin-bottom-alt:auto;
margin-left:0in;
mso-pagination:widow-orphan;
font-size:12.0pt;
font-family:"Times New Roman";
mso-fareast-font-family:"Times New Roman";}

p.BalloonText, li.BalloonText, div.BalloonText
{mso-style-name:"Balloon Text";
margin:0in;
margin-bottom:.0001pt;
mso-pagination:widow-orphan;
font-size:8.0pt;
font-family:Tahoma;
mso-fareast-font-family:"Times New Roman";}

@page Section1
{size:8.5in 11.0in;
margin:1.0in 1.25in 1.0in 1.25in;
mso-header-margin:.5in;
mso-footer-margin:.5in;
mso-paper-source:0;}

div.Section1
{page:Section1;}
-->
</style>
</head>

<body lang=EN-US style='tab-interval:.5in'>

```

<div class=Section1>

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</p>

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<p class=MsoNormal style='margin-left:.5in'><span style='font-size:10.0pt'>ii)  
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</div>

</body>

</html>

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## 1.170 threetenabp 1.0.5

## 1.171 hibernate-search-orm 5.9.0

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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.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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#### History of the software

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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Mersenne Twister

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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)`  
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## Sockets

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The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`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 version is still 5 times faster, though.

- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

-----

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Select kqueue

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SipHash24

-----

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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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

-----

The file :file:`Python/dtoa.c` , which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib

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cfuhash

-----

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## 1.185 spring-boot-autoconfigure 2.1.3

## 1.186 activation 1.1

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## 1.187 spring-retry 1.2.4

## 1.188 asm 5.0.4

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```
&' ( ) * + , - ./nameLjava/lang/String;urldistributioncomments
modelEncoding<init>()VCodeLineNumberTableLocalVariableTablethis
Lorg/apache/maven/model/License;getComments()Ljava/lang/String;getDistributiongetNamegetUrlsetComments(Lj
ava/lang/String;)VsetDistributionsetNamegetUrlsetModelEncodinggetModelEncoding
SourceFileLicense.javaUTF-8
org/apache/maven/model/Licensejava/lang/Objectjava/io/Serializable!
```

9\*\*

```
/*/*N/*V/*^>*_+
```

```
jk>*_+
```

```
>*_+
```

```
!>*_+
```

```
">*_+
```

```
#!/*$%
```

```
/*/*N/*V/*^>*_+
```

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# 1.190 spring-expression 5.1.5

## 1.191 jackson-databind 2.9.8

### 1.191.1 Available under license :

# Jackson JSON processor

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## 1.192 xml-apis 1.4.01

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<li>Gregor Leander <a href="mailto:gl@bos-bremen.de">gl@bos-bremen.de</a>; - initial parsing of multiple sequence entries in an X.500 Name.</li>

<li>Antoon Bosselaers <a href="mailto:Antoon.Bosselaers@esat.kuleuven.ac.be">Antoon.Bosselaers@esat.kuleuven.ac.be</a>; - help with RipeMD320 implementation.</li>

<li>Peter Sylvester <a href="mailto:Peter.Sylvester@edelweb.fr">Peter.Sylvester@edelweb.fr</a>; - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug <a href="mailto:ummmmm@myrealbox.com">ummmmm@myrealbox.com</a>; - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes <a href="mailto:fstaes@netconsult.be">fstaes@netconsult.be</a>; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>

<li>W.R. Dittmer <a href="mailto:writtmer@cs.vu.nl">writtmer@cs.vu.nl</a>; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPublicKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto <a href="mailto:laperez@banxico.org.mx">laperez@banxico.org.mx</a>; - patch to use of BitString in X.500 name.</li>

<li>James Wright <a href="mailto:James\_Wright@harte-hanks.com">James\_Wright@harte-hanks.com</a>; - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford <a href="mailto:jim@muirford.com">jim@muirford.com</a>; - 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.</li>

<li>Michael Hausler <a href="mailto:haeusler@ponton-consulting.de">haeusler@ponton-consulting.de</a>; - extra aliases for provider.</li>

<li>Sai Pullabhotla <a href="mailto:psai@linoma.com">psai@linoma.com</a>; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

<li>Joseph Miller <a href="mailto:joseph@digiwweb.net.nz">joseph@digiwweb.net.nz</a>; - addition of ZeroBytePadding.</li>

<li>Lars <a href="mailto:xyz@sagemdenmark.dk">xyz@sagemdenmark.dk</a>; - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen <a href="mailto:jeroen@vanvianen.nl">jeroen@vanvianen.nl</a>; - the Signed and Encrypted mail example.</li>

<li>Jun Sun <a href="mailto:JSun@diversinet.com">JSun@diversinet.com</a>; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>

<li>Petr Dukem <a href="mailto:pdukem@email.cz">pdukem@email.cz</a>; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>

<li>Filipe Silva <a href="mailto:filipe.silva@wedoconsulting.com">filipe.silva@wedoconsulting.com</a>; - patch to fix overread issue in BCPGInputStream.</li>

<li>Alpesh Parmar <a href="mailto:alps@linuxmail.org">alps@linuxmail.org</a>; - patch for class cast problem in PGPPublicKey.getSignatures().</li>

<li>Jay Gengelbach <a href="mailto:jengelbach@webmethods.com">jengelbach@webmethods.com</a>; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>

<li>Doug <a href="mailto:doug@tigerprivacy.com">doug@tigerprivacy.com</a>; - public key ring patches for ElGamal Signatures, problem key ring data.</li>

<li>Matthew Mundy <a href="mailto:mmundy1@umbc.edu">mmundy1@umbc.edu</a>; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>

<li>Tom Cargill <a href="mailto:cargill@profcon.com">cargill@profcon.com</a>; - spelling patch in provider.</li>

<li>Breitenstrom Christian <a href="mailto:C.Breitenstrom@t-systems.com">C.Breitenstrom@t-systems.com</a>; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>

<li>Zanotti Mirko <a href="mailto:zanotti@cad.it">zanotti@cad.it</a>; - patch to ordered equality test for X509Name.</li>

<li>Nicola Scendoni <a href="mailto:nscendoni@babelps.it">nscendoni@babelps.it</a>; - patch to add sorting to CertPath validation.</li>

<li>Ville Skyttä <a href="mailto:ville.skytta@iki.fi">ville.skytta@iki.fi</a>; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED

CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>  
<li>Bruce Gordon &lt;bruce.gordon&#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>  
<li>Miles Whiteley &lt;Miles.Whiteley&#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>  
<li>Albert Moliner &lt;amoliner&#064evintia.com&gt; - initial TSP implementation.</li>  
<li>Carlos Lozano &lt;carlos&#064evintia.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;javi&#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>  
<li>Joni Hahkala &lt;joni.hahkala&#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>  
<li>Rolf Schillinger&lt;rolf&#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>  
<li>Sergey Bahtin &lt;Sergey\_Bahtin&#064yahoo.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&#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>  
<li>Atsuhiko Yamanaka &lt;ymnk&#064jcraft.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&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>  
<li>Soren Hilmer &lt;soren.hilmer&#064tietoanator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>  
<li>Steve Mitchell &lt;mitchell&#064intertrust.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. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>  
<li>Dirk Eisner &lt;D.Eisner&#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>  
<li>Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>  
<li>Matteo &lt;matartuso&#064libero.it&gt; - sequence patch to ASNIDump.</li>  
<li>Andrew Paterson &lt;andrew.paterson&#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>  
<li>Vladimir Molotkov &lt;vladimir.n.molotkov&#064intel.com&gt; - extensive provider exception handling compliance testing.</li>  
<li>Florin Kollan &lt;adlocflo&#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>  
<li>Pavel Vassiliev &lt;paulvas&#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>  
<li>Tom Pesman &lt;tom&#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>  
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk&#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>  
<li>Arndt Hasch &lt;Arndt.Hasch&#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>  
<li>Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>  
<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>

<li>Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

<li>tu-vi chung &lt;t2chung&#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;dml&#064crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>

<li>Joel Rees &lt;rees&#064ddcom.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 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>

<li>David Josse &lt;david.josse&#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>

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

<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>

<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</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&#064bluwin.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;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

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

<li>John Alfred Prufrock &lt;j.a.prufrock@#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

<li>Stefan Neusatz Guillen &lt;sneusatz@#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

<li>Marzio Lo Giudice &lt;marzio.logiudice@#064gmail.com&gt; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>

<li>Georg Lippold &lt;georg.lippold@#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>

<li>Chris Viles &lt;chris\_viles@#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>

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

<li>Lijun Liao &lt;https://github.com/xipki&gt; - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li>

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

<li>Armin H&auml;berling &lt;arminha@#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>

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

<li>Xavier Le Vouch &lt;xavier@#064brittanysoftware.com&gt; - general code clean ups.</li>

<li>Erik Tews &lt;e\_tews@#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>

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

<li>Frank Cornelis &lt;info@#064frankcornelis.be&gt;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>

<li>Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>

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

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

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

<li>Matthias &lt;g@#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>

<li>Olga K&auml;thler &lt;olga.kaethler@#064hjp-consulting.com&gt; - initial implementation of TeleTrust EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>

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

<li>N&uacute;ria Mar&iacute;a &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>

<li>Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>

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

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

<li>Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>



<li>Mark Nelson &lt;mark@#064nabr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>

<li>Eugene Golushkov &lt;eugene\_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>

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

<li>Peter Knopp &lt;pknopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>

<li>Jakub Gwozdz &lt;gwozdziu@#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>

<li>Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>

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

<li>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.</li>

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

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

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

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

<li>Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>

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

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

<li>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]</li>

<li>Michael Schoene &lt;michael@#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>

<li>Ion Larra&ntilde;aga &lt;ilarra@#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>

<li>Bob Kerns &lt;bob.kerns@#064positscience.com&gt; fix to hashCode for X509CertificateObject.</li>

<li>Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>

<li>Robert J. Moore &lt;Robert.J.Moore@#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>

<li>Rui Hodai &lt;rui@#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>

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

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

<li>Paul FitzPatrick &lt;bouncycastle\_pfitz@#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>

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

<li>Cagdas Cirit &lt;cagdasirit@#064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>

<li>Harakiri &lt;harakiri\_23@#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>

<li>Pedro Henriques &lt;pmahenriques@#064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code

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

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<li>Shawn Willden &lt;swillden@064google.com>; additional functionality to PGPKKeyRing.</li>

<li>Atanas Krachev &lt;akrachev@064gmail.com>; added support for revocation signatures in OpenPGP.</li>

<li>Mickael Laiking &lt;mickael.laiking@064keynectis.com>; initial cut of EAC classes.</li>

<li>Tim Buktu &lt;tbuktu@064hotmail.com>; Initial implementation of NTRU signing and encryption.</li>

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

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

<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com>; Additional expiry time check in PGPPublicKeys.</li>

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

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

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

<li>Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com>; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>

<li>Andy Neilson &lt;Andy.Neilson@064quest.com>; a further patches to deal with multiple providers and PEMReader.</li>

<li>Ted Shaw &lt;xiao.xj@064gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>

<li>Eleriseth &lt;Eleriseth@064WPECGLtYbVi8Rl6Y7Vz12Lvd2EUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatilby generalisations for EC operations.</li>

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

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

<li>Philip Clay &lt;pilf\_b@064yahoo.com>; Initial implementation of J-PAKE.</li>

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

<li>Samuel Lid&eacute;n Borell &lt;samuel@064primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>

<li>Sergio Demian Lerner &lt;sergiolerner@064certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.</li>

<li>Tim Whittington &lt;Tim.Whittington@064orionhealth.com>; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code

quality work.</li>

- <li>Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
- <li>Andrey Zhozhin &lt;zhozhin@xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
- <li>Sergey Tiunov &lt;t5555d@gmail.com&gt; initial cut of DVCS classes.</li>
- <li>Damian Kolasa &lt;fatfredy@gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>
- <li>Ash Hughes &lt;ashley.hughes@blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
- <li>Daniel Hirscher &lt;dev@daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>
- <li>Daniele Ricci &lt;daniele.athome@gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
- <li>Matti Aarnio &lt;matti.aarnio@methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>
- <li>Babak Najafi &lt;bnajafi@akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>
- <li>Eric Mueller &lt;eric.mueller@sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
- <li>Mathias Herberts &lt;Mathias.Herberts@gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
- <li>Daniil Ivanov &lt;daniil.ivanov@gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
- <li>Daniele Grasso &lt;daniele.grasso86@gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
- <li>Andrey Utkin &lt;cindrhc@gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
- <li>Arnis Tartu &lt;arnis@ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
- <li>Axel VDB &lt;axel-vdb@riseup.net&gt; initial implementation of Shacal2.</li>
- <li>Roberto Tyley &lt;rtyley@gmail.com&gt; further work on completing gradle build.</li>
- <li>Waldemar Dick &lt;wdick@devmue.de&gt; code improvement in x500 ASN.1 package.</li>
- <li>Sid Steward &lt;sid.steward@pdflabs.com&gt; code improvements to ASN1Boolean.</li>
- <li>Alex Klyubin &lt;klyubin@google.com&gt; AlgorithmParameters check for EC key agreement.</li>
- <li>Jonathan Gillett &lt;gsoc.student@gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
- <li>Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
- <li>Kieran Miller &lt;kieran.miller@gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
- <li>Oliver Ehli &lt;ehli@arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
- <li>Daniel Heldt &lt;Daniel.Heldt@cryptovision.com&gt; Initial support for encodable state message digests</li>
- <li>Robert Bushman &lt;bouncycastle@traxel.com&gt; Clean up of DirectKeySignature example.</li>
- <li>Maurice Aarts &lt;aarts@riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
- <li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
- <li>KB Sriram &lt;mail\_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute

Subpackets.</li>  
<li>Marco Schulze<a href="https://github.com/marco-nightlabs.de">marco#064nightlabs.de</a>; Reported verification bug in GenericSigner.</li>  
<li>Martin Schaefer<a href="https://github.com/martinschaefer">https://github.com/martinschaefer</a>; contributed a code-cleanup patch.</li>  
<li>dstutz<a href="https://github.com/dstutz">https://github.com/dstutz</a>; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>  
<li>Tobias Wich<a href="https://github.com/tobias-wich">tobias.wich#064ecsec.de</a>; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>  
<li>Hauke Mehrstens<a href="https://github.com/hauke-m">hauke#064hauke-m.de</a>; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>  
<li>Daniel Zimmerman<a href="https://github.com/dmz-galois.com">dmz#064galois.com</a>; Further key quality improvements to RSAKeyPairGenerator.</li>  
<li>Jens Kapitzka<a href="https://github.com/kapitzka-schwarze-allianz.de">tj.kapitzka#064schwarze-allianz.de</a>; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>  
<li>Johan Eklund<a href="https://github.com/johan-primekey.se">johan#064primekey.se</a>; update to RFC 6960 for OCSPObjectIdentifiers.</li>  
<li>nikosn<a href="https://github.com/nikosn">https://github.com/nikosn</a>; Fix to encoding of EC private keys to ensure encoding matches order length.</li>  
<li>Axel von dem Bruch <a href="https://github.com/axel-vdb-riseup.net">axel-vdb#064riseup.net</a>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>  
<li>Derek Atkins <a href="https://github.com/derek-ihtfp.com">derek#064ihtfp.com</a>; Documentation fixes to X9ObjectIdentifiers.</li>  
<li>Peter Jr Halicky <a href="https://github.com/peto-halicky.sk">peto#064halicky.sk</a>; Correction to notification/error message handling in SignedMailValidator.</li>  
<li>IartiguePierre<a href="https://github.com/IartiguePierre">https://github.com/IartiguePierre</a>; Fix for counter signature SID in CMSSignedData.</li>  
<li>Thomas Belot<a href="https://github.com/thomas-belot-bc-gmail.com">thomas.belot+BC#064gmail.com</a>; initial CertPathLoopTest for demonstrating stack overflow issue.</li>  
<li>Rich DiCroce<a href="https://github.com/rdicroce">https://github.com/rdicroce</a>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>  
<li>Björn Kautler<a href="https://github.com/Vampire">https://github.com/Vampire</a>; Refinements to cert path validation (authority key addition, certificate order preservation).</li>  
<li>Dominik Schürmann<a href="https://github.com/dschuermann">https://github.com/dschuermann</a>; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>  
<li>Michael <a href="https://github.com/MSKnete-web.de">MSKnete#064web.de</a>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>  
<li>Tobias Wagner <a href="https://github.com/tobias-wagner-design.de">tobias.wagner#064n-design.de</a>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>  
<li>Sergio Giro <a href="https://github.com/sgiro-google.com">sgiro#064google.com</a>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>  
<li>bschuette<a href="https://github.com/bschuette">https://github.com/bschuette</a>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>  
<li>Leonard Dallot<a href="https://github.com/dallotTazTag">https://github.com/dallotTazTag</a>; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>  
<li>Jan Willem Janssen <a href="https://github.com/j.w.janssen-bouncycastle-xtreme.nl">j.w.janssen+bouncycastle#064xtreme.nl</a>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>  
<li>Sebastian Oerding <a href="https://github.com/sebastian.oerding-robotron.de">sebastian.oerding@robotron.de</a>; Fixes to toString() in x509.CertificatePolicies.</li>  
<li>Kai Kramer <a href="https://github.com/kai.kramer-gmail.com">kai.kramer#064gmail.com</a>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>  
<li>Benoit Charles <a href="https://github.com/benoit.charles-opentrust.com">benoit.charles#064opentrust.com</a>; Fix for IES data length check on decryption.</li>

<li>Niko &lt;nfink95&#064gmail.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&#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>  
<li>Lukasz Deputat &lt;lukasz.deputat&#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>  
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>  
<li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>  
<li>Slawomir Jaranowski&lt;https://github.com/slawekjaranowski&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&#064gmail.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 Naegele &lt;jnaegele&#064grierforensics.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&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>  
<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>  
<li>Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>  
<li>Artem Storozhuk &lt;storajs72&#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>  
<li>Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.</li>  
<li>Evangelos Karatsiolis &lt;ekaratsiolis&#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>  
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>  
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>  
<li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>  
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>  
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>  
<li>Mike Safonov&lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>  
<li>Artem Storozhuk &lt;storajs72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>  
<li>Andreas Glaser &lt;andreas.glaser&#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>  
<li>codeborne &lt;https://github.com/cbcp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-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/flooe&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 PGPUtil.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 PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. 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 OAEP encoding 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 Liutikas &lt;https://github.com/liutikas&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 JceKeyTransRecipientInfoGenerator, 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.</li>

- <li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>
- <li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>
- <li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
- <li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer&#064truesec.se&gt; Additional improvements to constant time comparisons.</li>
- <li>Ren&eacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
- <li>THausherr&lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
- <li>Gaylor Bosson&lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
- <li>gaellalire&lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SEExpr.</li>
- <li>im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.</li>
- <li>Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
- <li>dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
- <li>Daniel Heldt&lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
- <li>Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
- <li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
- <li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
- <li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
- <li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
- <li>Tobias Ospelt &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.</li>

</ul>

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## 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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```
/*
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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

# 1.205 websocket-api 9.4.18.v20190429

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

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

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

-----  
Oracle

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

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

-----  
Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

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

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Apache

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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

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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## 1.207 txw2 2.3.1

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`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`  
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`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`  
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## 1.212 doxia-module-fml 1.1.2

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## 1.213 janino 3.0.6

## 1.214 javax-annotation-api 1.3.2

## 1.215 ecj 4.3.1

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# 1.216 core-module 1.2.3

## 1.217 jradius-extended 1.1.5

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/\*! jQuery UI - v1.10.4 - 2014-02-16

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## 1.232 jsch 0.1.50

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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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## 1.241 animal-sniffer-annotation 1.14

### 1.242 ftplet-api 1.1.1

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# 1.243 apache-cxf 3.3.1

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 */
package org.apache.cxf.rs.security.oauth.data;

/**
 * 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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#foreach ( $license in $project.licenses)
#if ( ! ($apacheTxt == $license.name) )
```

```
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($license.url) ($license.url)#end
```

```
#end
```

```
#end
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<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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\*/

package org.apache.cxf.io;

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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JAXB Runtime (<https://javaee.github.io/jaxb-v2/jaxb-runtime-parent/jaxb-runtime/>) org.glassfish.jaxb:jaxb-runtime:jar:2.3.2  
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JAXB XJC (<https://javaee.github.io/jaxb-v2/jaxb-xjc/>) org.glassfish.jaxb:jaxb-xjc:jar:2.3.2  
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org.jboss.spec.javaax.annotation:jboss-annotations-api\_1.2\_spec:jar:1.0.2.Final  
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asm (<http://asm.ow2.org/>) org.ow2.asm:asm:jar:7.0  
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JCL 1.2 implemented over SLF4J (<http://www.slf4j.org>) org.slf4j:jcl-over-slf4j:jar:1.7.26  
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## 1.245 bzip2 1.0.6

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minibz2

libbz2.dll test program.

by Yoshioka Tsuneo ([tsuneo@rr.ij4u.or.jp](mailto:tsuneo@rr.ij4u.or.jp))

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

\*/

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## 1.247 apache-commons-logging 1.2

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## 1.249 junit 4.12

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## 1.259 commons-math 3.6.1

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## 1.266 txw2 2.3.0

# 1.267 snake-yaml 1.12

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# 1.268 jetty-webapp 9.4.18.v20190429

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

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

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache



The following artifacts are ASL2 licensed.

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

-----

MortBay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.270 fast-infoset 1.2.15

## 1.271 antlr 2.7.7

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parrt@cs.usfca.edu

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version 1.2.11, January 15th, 2017
```

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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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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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# 1.285 spring-batch-core 4.1.2

# 1.286 unix4j-base 0.4

# 1.287 jacoco-report 0.8.2

## 1.288 aspectj-tools 1.9.2

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## 1.290 doxia-site-renderer 1.1.2

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## 1.291 cglib-nodep 2.2.2

## 1.292 jaxb-runtime 2.3.1

## 1.293 accessors-smart 1.2

## 1.294 joda-time 2.10.1

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## 1.302 spring-boot 2.1.3

## 1.303 tyrus-spi 1.13

# 1.304 hibernate-commons-annotations 5.0.1

## 1.305 asm-tree 6.2.1

## 1.306 apache-ds-i18n 2.0.0

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## 1.307 junit 4.12

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## 1.309 handlebarsjs 4.0.12

## 1.310 maven-artifact-manager 2.2.1

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## 1.314 woodstox-core 5.0.3

## 1.315 aspect-j 1.9.2

## 1.316 jetty-client 9.4.18.v20190429

## 1.317 jaxb-runtime 2.3.0

## 1.318 commons-csv 1.4

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## 1.330 curvesapi 1.06

## 1.331 threetenbp 1.3.3

# 1.332 commons-validator 1.4.0

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This is part of jsdiff v1.0. <<http://github.com/cemerick/jsdiff>>

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## 1.338 spring-framework 3.2.17

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`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`



analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
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[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

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## 1.352 apache-commons-logging 1.1.1

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## 1.354 spring-aop 5.1.5

## 1.355 commons-db-cp 2.5.0

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## 1.359 plexus-utils 3.0.22

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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`

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=====  
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=====

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## 1.370 reflections 0.9.9

## 1.371 commons-chain 1.2

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## 1.373 spring-boot-starter-logging 2.1.3

## 1.374 quartz 2.3.1

## 1.375 lucene-analyzers-common 5.5.5

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Version: 1.2

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Status: Maintenance Release

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## 1.384 jackson-datatype-hibernate 2.9.8

## 1.385 spring-data-commons 2.1.5

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## 1.386 cxf-rt-ws-addr 3.3.1

## 1.387 underscore-js 1.8.3

## 1.388 jdbc-starter 2.1.3

## 1.389 regexp 2.7.2



# 1.390 cglib 3.2.10

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## 1.393 objectweb-asm 7.0

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# 1.396 libjpeg 6b

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## 1.396.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.  
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,  
rdjpgcom, and wrjpgcom.  
\*.1 Unix-style man pages for programs (same info as usage.doc).  
wizard.doc Advanced usage instructions for JPEG wizards only.  
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.  
example.c Sample code for calling the JPEG library.  
structure.doc Overview of the JPEG library's internal structure.  
filelist.doc Road map of IJG files.  
coderrules.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

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp.

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

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

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

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

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

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

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



## ARCHIVE LOCATIONS

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have 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 archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. 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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

## FILE FORMAT WARS

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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

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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](mailto: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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# 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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## 1.405 jlibmodbus 1.2.8.4

## 1.406 json-simple 1.1.1

## 1.407 stax 3.1.4

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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## 1.408 swagger 1.5.3

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```
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) {
```



```

        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;
        }
    }

```

```
    if (url == null) {
        if (other.url != null) {
            return false;
        }
    } else if (!url.equals(other.url)) {
        return false;
    }
    return true;
}
}
```

## 1.409 bean-validation-api 2.0.1

### 1.409.1 Available under license :

Bean Validation API

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## 1.410 jackson-databind 2.10.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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## Credits

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

## 1.411 cxf-rt-wsdl 3.3.1

## 1.412 velocity 2.0

### 1.412.1 Available under license :

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# 1.416 postgresql-jdbc 42.2.5

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layout: default
title: PostgreSQL JDBC Contributors
resource: ../media
nav: ../
---

{% include submenu_community.html %}
```

```
<div id="pgContentWrap">
<h1>Contributors</h1>
<hr />
<div>
<ul>
<li><a href="#maintainers">Maintainers</a></li>
<li><a href="#authors">Previous Maintainers</a></li>
<li><a href="#developers">Developers</a></li>
<li><a href="#translators">Translators</a></li>
</ul>
</div>
<hr />

<a name="maintainers"></a>
<h2 class="underlined_10">Maintainers</h2>
<div>
<p>
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a specific need to contact just them. Please use the
<a href="mailto:pgsql-jdbc@postgresql.org">pgsql-jdbc@postgresql.org</a>
mailing list if at all possible.
</p>
<ul>
<li>[davec] - Dave Cramer (pg.at.fastcrypt.com)</li>
<li>[jurka] - Kris Jurka (jurka.at.ejurka.com)</li>
<li>[oliver] - Oliver Jowett (oliver.at.opencloud.com)</li>
</ul>
</div>
<hr />

<a name="authors"></a>
<h2 class="underlined_10">Previous Maintainers</h2>
<div>
<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>

<hr />

<a name="developers"></a>

<h2 class="underlined\_10">Developers</h2>

<div>

<p>

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.

</p>

<ul>

<li>Jan Andre le Roux

<ul>

<li>ResultSetMetaData information based on the V3 protocol</li>

</ul>

</li>

<li>Jaroslaw J. Pyszny

<ul>

<li>Improve MetaData regarding the serial datatype</li>

</ul>

</li>

<li>Ulrich Meis

<ul>

<li>Allow users to customize the SSL connection</li>

</ul>

</li>

<li>Xavier Poinard

<ul>

<li>Standard escaped functions {fn ...() }</li>

</ul>

</li>

<li>Oliver Siegmair

<ul>

<li>Support for infinity in the timestamp datatype</li>

<li>Make PGInterval able to decode and manipulate interval data</li>

</ul>

</li>

<li>Michael Barker

<ul>

<li>Blob write and position methods.</li>

</ul>

</li>

<li>Andras Kadinger

<ul>

<li>Support asynchronous notification retrieval.</li>

</ul>

</li>  
<li>Heikki Linnakangas  
<ul>  
<li>XADataSource implementation.</li>  
</ul>  
</li>  
<li>Luis Vilar Flores  
<ul>  
<li>Reduce memory usage retrieving bytea data.</li>  
</ul>  
</li>  
<li>Michael Paesold  
<ul>  
<li>Correctly parse dollar quotes and comments.</li>  
<li>Work with standard\_conforming\_strings = on.</li>  
</ul>  
</li>  
<li>Mikko Tiihonen  
<ul>  
<li>Improve speed of parsing ResultSet data.</li>  
</ul>  
</li>  
<li>Marek Lewczuk  
<ul>  
<li>Support multi-dimensional arrays and NULL array elements.</li>  
</ul>  
</li>  
</ul>  
</div>  
<hr />

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<h2 class="underlined\_10">Translators</h2>

<div>  
<ul>  
<li>cs - Czech  
<ul>  
<li>Petr Dittrich</li>  
</ul>  
</li>  
<li>de - German  
<ul>  
<li>Andre Bialojahn</li>  
</ul>  
</li>  
<li>es - Spanish  
<ul>  
<li>Diego A. Gil</li>

</ul>  
</li>  
<li>fr - French  
<ul>  
<li>Xavier Poinsard</li>  
</ul>  
</li>  
<li>it - Italian  
<ul>  
<li>Giuseppe Sacco</li>  
</ul>  
</li>  
<li>pl - Polish  
<ul>  
<li>Jaroslaw Pyszny</li>  
</ul>  
</li>  
<li>pt\_BR - Brazilian Portuguese  
<ul>  
<li>Euler Taveira de Oliveira</li>  
</ul>  
</li>  
<li>ru - Russian  
<ul>  
<li>Serguei Mokhov</li>  
</ul>  
</li>  
<li>sr - Serbian  
<ul>  
<li>Bojan Skaljac</li>  
</ul>  
</li>  
<li>tr - Turkish  
<ul>  
<li>Devrim Gunduz</li>  
<li>Nicolai Tufar</li>  
</ul>  
</li>  
<li>zh\_CN - Simplified Chinese  
<ul>  
<li>Weiping</li>  
<li>Kuo ChaoYi</li>  
</ul>  
</li>  
<li>zh\_TW - Traditional Chinese  
<ul>  
<li>Zhenbang Wei</li>  
<li>Kuo ChaoYi</li>

```
</ul>
</li>
</ul>
</div>
</div> <!-- pgContentWrap -->
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```

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```
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title: PostgreSQL JDBC License
resource: ../media
nav: ../
---
```

```
{% include submenu_about.html %}
```

```
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</p>
<hr />
```



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```

```
</div> <!-- pgContentWrap -->
```

```
{
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  "AlexElin" : "https://github.com/AlexElin",
  "Alexander Kjll" : "https://github.com/alexanderkjll",
  "Barnabas Bodnar" : "https://github.com/bbodnar",
  "Brett Okken" : "https://github.com/bokken",
  "Brett Wooldridge" : "https://github.com/brettwooldridge",
  "Chen Huajun" : "https://github.com/ChenHuajun",
  "Christian Kotzbauer" : "https://github.com/code-chris",
  "Christian Ullrich" : "https://github.com/chrullrich",
  "Christoph Berg" : "https://github.com/ChristophBerg",
  "Christopher Deckers" : "https://github.com/Chrriis",
  "Daniel Gustafsson" : "https://github.com/danielgustafsson",
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  "Florin Asvoaie" : "https://github.com/FlorinAsvoaie",
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## 1.417 threetenbp 1.3.3

## 1.418 json-java 20180130

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# 1.420 codegen 0.6.8

# 1.421 commons-lang 2.3

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## 1.423 tomcat-juli 9.0.16

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## 1.426 maven-settings 2.2.1

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