

# Licensing Information User Manual

## Oracle Java SE 8 and Oracle Java SE 8 Embedded Products

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## Title and Copyright Information

### Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com/>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle’s Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>

### Licensing Information

#### Description of Product Editions and Permitted Features

The Oracle Java SE and Oracle Java SE Embedded products listed below include multiple features. In order to gain access to all of the features applicable to the product you have licensed, you may need to download more than one installation package.

There is no one-to-one relationship between products, features, and installation packages.

Installation packages may include features that are not available to all Oracle Java SE products and a single Oracle Java SE product may require more than one installation package. In addition, it may not be possible to download only the features licensed in a particular product as those features may only be available in installation packages that also include features not licensed in the desired product.

The tables and paragraphs below describe the products covered by this document. The tables also describe the features available in each product and the features included in installation packages.

This document applies to the following products:

- Oracle Java SE

Oracle Java SE provides features required for developing and running applications in the Java programming Language. For some system configurations and versions, Oracle Java SE also includes the JavaFX client platform designed to enable application developers to easily create and deploy desktop and internet applications that behave consistently across different operating systems. Oracle Java SE only includes the features described in the table immediately below. However, you can obtain additional features by upgrading to one of the other products listed in this section.

All features listed in the table immediately below marked as not available for 'Oracle Java SE' are Commercial Features under the Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX.

- Oracle Java SE Universal Subscription

Oracle Java SE Universal Subscription includes Oracle Java SE plus additional features, identified in the table below, for mission critical enterprise client and server deployments of Java; for as long as the subscription remains active. Once the subscription ends, use of all software acquired through the subscription must terminate.

- Legacy Oracle Java SE Subscription

Oracle Java SE Subscription includes Oracle Java SE plus additional features, identified in the table below, for mission critical enterprise client and server deployments of Java; for as long as the subscription remains active. Once the

subscription ends, use of all software acquired through the subscription must terminate.

- Legacy Oracle Java SE Desktop Subscription

Oracle Java SE Desktop Subscription provides the same set of features as Oracle Java SE Subscription, however your use is restricted to general purpose desktop computers. Use with server applications is not allowed. Once the subscription ends, use of all software acquired through the subscription must terminate.

- Legacy Oracle Java SE Advanced and Oracle Java SE Advanced for Independent Software Vendors (ISVs)

Oracle Java SE Advanced includes Oracle Java SE plus additional features, identified in the table below, for mission critical enterprise client and server deployments of Java as well as Java based ISV applications and solutions. Oracle Java SE Advanced for ISVs provides the same features as Oracle Java SE Advanced, but the license terms for Oracle Java SE Advanced for ISVs allow for redistribution to third parties.

- Legacy Oracle Java SE Advanced Desktop and Oracle Java SE Advanced Desktop for ISVs

Oracle Java SE Advanced Desktop provides the same set of features as Oracle Java SE Advanced, however your use is restricted to general purpose desktop computers. Use with server applications is not allowed. Oracle Java SE Advanced Desktop for ISVs provides the same features as Oracle Java SE Advanced Desktop, but the license terms for Oracle Java SE Advanced Desktop for ISVs allow for redistribution to third parties.

- Legacy Oracle Java SE Suite and Oracle Java SE Suite for ISVs

Oracle Java SE Suite includes Oracle Java SE Advanced, plus additional features, identified in the table below, for soft real-time. Oracle Java SE Suite for ISVs provides the same features as Oracle Java SE Suite, but the license terms for Oracle Java SE Suite for ISVs allow for redistribution to third parties.

- Oracle Java SE Embedded

Oracle Java SE Embedded includes ported versions of the Java Development Kit (JDK) for specialized hardware. To use such JDK ports you must accept the applicable [Oracle Technology Network License Agreement](#). Oracle Java SE Embedded also extends Oracle Java SE to non-general purpose desktop computers and servers. For commercial use, production use and/or distribution

of Oracle Java SE Embedded products, contact Oracle to obtain the applicable license.

The products listed above might also grant you rights to other Java SE versions. Other Java SE versions might have different restrictions, features, entitlements, and/or installation packages. Please review the licensing information user manual for other Java SE versions to learn about your rights associated with those Java SE versions.

The following table describes the features available in each product, subject to the Entitled Products and Restricted Use Licenses table.

Feature	Oracle Java SE	Oracle Java SE Subscription And Oracle Java SE Universal Subscription	Oracle Java SE Advanced	Oracle Java SE Desktop Subscription	Oracle Java SE Advanced Desktop	Oracle Java SE Suite	Oracle Java SE Embedded
<b>Java Runtime Environment (JRE)</b> <ul style="list-style-type: none"> <li>• Java Virtual Machine (JVM)</li> <li>• Java Standard Libraries</li> <li>• JavaFX Runtime (for applicable versions)</li> </ul>	Y	Y	Y	Y	Y	Y	Y
<b>Java Deployment Technologies</b> <ul style="list-style-type: none"> <li>• Plugin</li> <li>• Web start</li> </ul>	Y	Y	Y	Y	Y	Y	Y
<b>Java SE Development Kit (JDK)</b> <ul style="list-style-type: none"> <li>• JavaFX SDK Libraries (for applicable versions)</li> </ul>	Y	Y	Y	Y	Y	Y	Y
<b>Java SE Subscription Enterprise Performance Pack</b>	N	Y	N	N	N	N	N
<b>GraalVM Enterprise Edition</b> <ul style="list-style-type: none"> <li>• Through GraalVM for JDK 24</li> </ul>	N	Y	N	Y	N	N	N
<b>Java SE Development Kit for embedded devices</b>	N	N	N	N	N	N	Y
<b>Java Flight Recorder – for Desktop</b>	N	Y	Y	Y	Y	Y	Y
<b>Java Flight Recorder – for Server</b>	N	Y	Y	N	N	Y	Y
<b>Java/JDK Mission Control</b>	N	Y	Y	Y	Y	Y	Y

<b>Java SE Enterprise Installer</b>	N	Y	Y	Y	Y	Y	N
<b>JRE Usage Tracking</b>	N	Y	Y	Y	Y	Y	Y
<b>Jipher</b>	N	Y	N	N	N	N	N

The following features are available only as described in the “Prerequisite Products” section below:

- Cooperative Memory Management
- Resource Management

### **Installation packages**

There are no installers or packages that correspond directly with the Oracle Java SE or Oracle Java SE Embedded products listed above. You must ensure that you have the appropriate licenses to use any of the features from each of these packages.

<b>Package</b>	<b>Contents</b>	<b>Features Available</b>
<b>Oracle Java SE Runtime Environment (JRE) - Standard Installer</b>	Everything required for running Java applications including a Java Virtual Machine, many common Java Libraries, the JavaFX runtime and libraries (for applicable versions) as well as the technologies required for accessing the JRE through a web browser.	<ul style="list-style-type: none"> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
<b>Oracle Java SE Runtime Environment (JRE) - MSI Installer</b>	<p>Same content as the JRE Standard Installer but packaged in a format optimized for mass automated distribution, rather than for manual installation.</p> <p>Available only for Windows systems.</p>	<ul style="list-style-type: none"> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> <li>- Java SE Enterprise Installer</li> </ul>
<b>Oracle Java SE Runtime Environment (JRE) - Server Installer</b>	<p>Similar content to that of the JRE Standard Installer but includes tools and components typically required for running and monitoring Java Server applications.</p> <p>Excludes Java Deployment Technologies</p>	<ul style="list-style-type: none"> <li>- Java Runtime Environment</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
<b>Oracle Java SE Development Kit (JDK)</b>	Targeted for developers of Java applications. Includes a complete Java Runtime Environment plus many tools required for developing, debugging, monitoring, and documenting Java Programs.	<ul style="list-style-type: none"> <li>- Java SE Development Kit</li> <li>- Java Runtime Environment</li> <li>- Java Deployment Technologies (Plugin &amp; Web start)</li> <li>- Java Flight Recorder</li> <li>- JRE Usage Tracking</li> </ul>
<b>Oracle Java SE Subscription Enterprise Performance Pack</b>	<p>High performance headless Java SE 8 runtime for server applications.</p> <p>Available only for Linux systems.</p>	<ul style="list-style-type: none"> <li>- Java Runtime Environment</li> <li>- JRE Usage Tracking</li> </ul>



<b>GraalVM Enterprise Edition</b>	Optimizing compiler for JVM-based applications. Can be used as an alternative just-in-time compiler or using the Native Image plugin it can be used to create Ahead-of-Time (AOT) compiled applications. Through GraalVM for JDK 24	<ul style="list-style-type: none"> <li>- Java SE Development Kit</li> <li>- Java Runtime Environment</li> <li>- Java Flight Recorder</li> <li>- GraalVM Enterprise Edition</li> </ul>
<b>Java/JDK Mission Control</b>	JDK Mission Control (JMC) is an advanced set of tools for managing, monitoring, profiling, and troubleshooting Java applications.	- Java/JDK Mission Control
<b>Java/JDK Mission Control (Eclipse Plugin)</b>	<p>Plugin for using Java/JDK Mission Control as an Eclipse Add-on.</p> <p>Requires Eclipse Rich Client Platform (RCP) which is separately available from the Eclipse Foundation's website.</p> <p>Oracle does not provide support for the Java/JDK Mission Control Eclipse Plugin.</p>	- Java/JDK Mission Control
<b>Oracle TZUpdater</b>	Utility for updating the time zone database, included with the Java Runtime Environment, with the information provided on the IANA Time Zone Database updates	
<b>Jipher</b>	Jipher is a Cryptographic Service Provider (CSP) provider, as defined by the Java Cryptography Architecture (JCA), that packages a Federal Information Processing Standards (FIPS) validated OpenSSL 3.x cryptographic module. The Jipher provider makes these cryptographic services available for Java developers using the standard JCA framework.	

Note that some features included on some packages are disabled by default and users must enable them before they can be used. Please refer to the product technical documentation for details on how to enable and use each feature.

## Prerequisite Products

- Running your application on Oracle WebLogic Server, Oracle Cloud, or Oracle Cloud Machine is a prerequisite to license and use the following features:
  - Cooperative Memory Management
  - Resource Management

## Entitled Products and Restricted Use Licenses

Java SE Product / Feature	Licensing Information
<b>Java Mission Control</b>	<p data-bbox="704 766 932 800"><b>Restricted Use</b></p> <p data-bbox="704 821 1463 961">Java Mission Control is restricted to monitor, either by connecting to or by examining recordings made on, machines on which the use of Java Flight Recorder is licensed.</p> <p data-bbox="704 1003 1490 1182">Java Mission Control can be run from any system, even those not covered by any of the Java Products that offers Java Flight Recording, as long as they are used to monitor systems on which Java Flight Recorder is licensed.</p> <p data-bbox="704 1224 1455 1329">For Example: A company has 10 servers licensed for Java Flight Recorder and monitored from four workstations.</p> <ul data-bbox="704 1371 1474 1797" style="list-style-type: none"><li>• The company needs Oracle Java SE Advanced (or some other product that offers Java Flight Recorder) licenses for the 10 servers, but not for the four client workstations</li><li>• The company may send the Java Flight Recording files to be analyzed by an outside consultant who may use Java Mission Control to review the recordings on the company's behalf only without requiring Java SE Advanced on the consultant's system, as long as the consultant only analyzes recordings done on (or connects to) the company's licensed systems.</li></ul>

## Java SE Runtime Environment

## Additional Terms and conditions for redistribution

When allowed by the Oracle license agreement under which you have licensed Oracle Java SE, and when in compliance with the conditions set forth in such license agreement, licensees (including developers and independent software vendors) who license and distribute the Java SE Runtime Environment with their programs may also redistribute the Java SE Runtime Environment (JRE).

For Java SE 8 either:

- Use contents of the JRE installer/package, or
- Extract the JRE from the JDK.

In either case you are permitted to trim out the optional files listed in *Appendix 1: Optional JRE Files and Directories* and you may include the Redistributable files from *Appendix 2: Redistributable JDK Files*.

## GraalVM Enterprise Edition and Native Image Plugin

**End of support for Oracle GraalVM in Java SE Products.** GraalVM for JDK 24 was the final version of Oracle GraalVM licensed and supported as part of Oracle Java SE products. Any entitled customers seeking patches or updates to previously released GraalVM versions should download them through [MOS](#). More information is available [here](#). Customers seeking additional information or assistance should contact [MOS](#).

The Native Image Features included with GraalVM are available as early adopter technology. As such, they are subject to significant, additional license restrictions and limitations contained in a separate download license available at <https://www.oracle.com/downloads/licenses/graalvm-otn-license.html> that you must accept in order to use the Native Image Features. Please carefully review this license before you download and use the Native Image Features.

## Third-Party Notices and/or Licenses

### Open Source or Other Separately Licensed Software

The required notices for open source or other separately licensed software products or components distributed in Oracle Java SE and Oracle Java Embedded Products are identified in the following table, along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

## On Oracle Java SE 8 Products

- Apache Commons Math 3.2
- Apache Derby 10.11.1.2 for JDK 8 to 8u172
- Apache Jakarta BCEL 5.1 for JDK 8 to 8u241
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.0 for JDK 8u251
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.3.1 for JDK 8u261 to 8u291
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.4.1 for JDK 8u301 to 8u321
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0 for JDK 8u331 to 8u371
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0 for JDK 8u381 and later
- Apache Jakarta Regexp 1.4 for JDK 8 to 8u241
- Apache Santuario v1.5.4 for JDK 8 to 8u221
- Apache Santuario v2.1.3 for JDK 8u231 to 8u271
- Apache Santuario v2.1.4 for JDK 8u281 to 8u301
- Apache Santuario v2.2.1 for JDK 8u311 to 8u333
- Apache Santuario v2.3.0 for JDK 8u341 to 8u401
- Apache Santuario v3.0.3 for JDK 8u411 to 8u461
- Apache Santuario v3.0.5 for JDK 8u471 and later
- Apache Xalan 2.7.1 for JDK 8 to 8u212
- Apache Xalan 2.7.2 for JDK 8u221 to 8u401
- Apache Xalan 2.7.3 for JDK 8u411 and later
- Apache Xerces 2.10.0 for JDK 8 to 8u212
- Apache Xerces 2.11.0 for JDK 8u221 and 8u251
- Apache Xerces 2.12.1 for JDK 8u261 to 8u341
- Apache Xerces 2.12.2 for JDK 8u351 and later
- Apache XML Resolver 1.1 for JDK 8 to 8u212
- Apache XML Resolver 1.2 for JDK 8u221 and later
- Apple Computer: CoreAudio Utility Classes v2.0
- ASM Bytecode Manipulation Framework v5.0.3
- BSDiff and BSPatch v4.3 (Windows and MacOS only) for JDK 8 to 8u351
- Cryptix AES 3.2.0
- CUP Parser Generator for Java 0.10k for JDK 8 to 8u241
- CUP Parser Generator for Java 0.11b for JDK 8u251 and later
- DejaVu fonts v2.34 for JDK 8 to 8u241

- DejaVu fonts v2.37 for JDK 8u251 and later
- Document Object Model (DOM) Level 2 & 3
- Dynalink v.5
- ECMAScript Language Specification ECMA-262 Edition 5.1
- Elliptic Curve Cryptography
- Eastman Kodak Company: Kodak Color Management System (kcms) and portions of color management and imaging software
- FontConfig 2.5 (Linux and Solaris only)
- freebXML v3.1
- GIFLIB v5.1.8 for JDK 8 to 8u241
- GIFLIB v5.2.1 for JDK 8u251 to 8u421
- GIFLIB v5.2.2 for JDK 8u431 and later
- IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
- ICU4C 4.0.1 and ICU4J 4.4 for JDK 8 to 8u212
- ICU4J v60.2 for JDK 8u221 and later
- IJG JPEG 6b
- Jing v20030619
- JRuby Joni v1.1.9 for JDK 8 to 8u231
- JRuby Joni v2.1.16 for JDK 8u241 to 8u271
- JRuby Joni v2.1.40 for JDK 8u281 to 8u351
- JRuby Joni v2.1.43 for JDK 8u361 to 8u401
- JRuby Joni v2.2.1 for JDK 8u411 to 8u451
- JRuby Joni v2.2.5 for JDK 8u461 and later
- JOpt-Simple v3.0
- JSON
- Kerberos functionality from FundsXpress, INC.
- Khronos Group OpenGL Headers v2.1 (on Linux, Solaris, and macOS)
- libpng 1.6.16 for JDK 8 to 8u212
- libpng 1.6.35 for JDK 8u221
- libpng 1.6.37 for JDK 8u231 to 8u361
- libpng 1.6.38 for JDK 8u371 to 8u381
- libpng 1.6.39 for JDK 8u391 to 8u401
- libpng 1.6.40 for JDK 8u411 to 8u421
- libpng 1.6.43 for JDK 8u431 to 8u451
- libpng 1.6.47 for JDK 8u461 and later
- libungif 4.1.3
- libXrandr v1.5.2 (Solaris only)
- Little CMS 2.5 for JDK 8 to 8u212
- Little CMS 2.9 for JDK 8u221 to 8u271
- Little CMS 2.11 for JDK 8u281 to 8u291
- Little CMS 2.12 for JDK 8u301 to 8u361
- Little CMS 2.14 for JDK 8u371
- Little CMS 2.15 for JDK 8u381 to 8u411
- Little CMS 2.16 for JDK 8u421 to 8u451

- Little CMS 2.17 for JDK 8u461 and later
- Mesa 3D Graphics Library v4.1 for JDK 8 to 8u212
- Mesa 3D Graphics Library v5 for JDK 8u221 to 8u241
- Mesa 3D Graphics Library v19.2.1 for JDK 8u251 to 8u301
- Mesa 3D Graphics Library v21.0.3 for JDK 8u311 and later
- PC/SC Lite v1.1.1 (Linux, Solaris, and macOS) for JDK 8 to 8u221
- PC/SC Lite v1.8.24 (Linux, Solaris, and macOS) for JDK 8u231 to 8u271
- PC/SC Lite v1.8.26 (Linux, Solaris, and macOS) for JDK 8u281 to 8u341
- PC/SC Lite v1.9.5 (Linux, Solaris, and macOS) for JDK 8u351 to 8u381
- PC/SC Lite v1.9.9 (Linux, Solaris, and macOS) for JDK 8u391 to 8u441
- PC/SC Lite v2.3.0 (Linux, Solaris, and macOS) for JDK 8u451 and later
- PipeWire 0.3.68 (Linux and macOS only) for JDK 8u441 to 8u451
- PipeWire 1.3.81 (Linux and macOS only) for JDK 8u461 and later
- PKCS #11 Cryptographic Token Interface v2.20 Amendment 3 Header Files
- PKCS #11 Cryptographic Token Interface v2.40 for JDK 8u261 to 8u281
- PKCS #11 Cryptographic Token Interface v3.0 for JDK 8u291 to 8441
- PKCS #11 Cryptographic Token Interface v3.1 for JDK 8u451 and later
- PorterStemmer v4
- Relax NG Object/Parser v.20050510
- RelaxNG Datatype v1.0
- RelaxNGCC v1.12
- SoftFloat version 2b (Linux/ARM only)
- SipHash v1.0-68c8a7c for JDK 331 and later
- Sparkle 1.5 (macOS only) for JDK 8 to 8u251
- Sparkle 1.23 (macOS only) for JDK 8u261 to 8u321
- Sparkle 1.27 (macOS only) for JDK 8u331 to 8u381
- Sparkle 2.4.2 (macOS only) for JDK 8u391 to 8u431
- Sparkle 2.6.4 (macOS only) for JDK 8u441 to 8u471
- Sparkle 2.7.1 (macOS only) for JDK 8u481 and later
- Thai Dictionary
- Unicode 6.2.0 & CLDR 21.0.1
- X Windows System 6.8.2 (Linux and Solaris only) for JDK 8 to 8u212
- Xfree86-VidMode Extension 1.0 (Linux and Solaris only)
- xorgproto v2018.4 (Linux and Solaris only) for JDK 8u221 to 8u261
- xorgproto v2020.1 (Unix only) for JDK 8u271 to 8u311
- xorgproto v2021.4 (Unix only) for JDK 8u321 to 8u361
- xorgproto v2022.2 (Unix only) for JDK 8u371 to 8u421
- xorgproto v2023.2 (Unix only) for JDK 8u431 to 8u451
- xorgproto v2024.1 (Unix only) for JDK 8u461 and later
- XWD Utility v1.0.7 (Linux and Solaris only) for JDK 8u221 and later
- zlib v1.2.8 (Windows only) for JDK 8 to 8u212
- zlib v1.2.11 (Windows only) for JDK 8u221 to 8u361
- zlib v1.2.13 (Windows only) for JDK 8u371 to 8u411
- zlib v1.3.1 (Windows only) for JDK 8u421 and later
- on JavaFX (for applicable versions)

- GNU Glib v2.62.2 for JDK 8u251 to 8u291
- GNU Glib v2.66.7 for JDK 8u301 to 8u333
- GNU Glib v2.72.0 for JDK 8u341 to 8u401
- GNU Glib v2.78.1 for JDK 8u411 to 8u431
- GNU Glib v2.80.4 for JDK 8u441
- GNU Glib v2.82.4 for JDK 8u451 to 8u471
- GNU Glib v2.84.3 for JDK 8u481 and later
- GStreamer 1.16.1 for JDK 8u251 to 8u291
- GStreamer 1.18.3 for JDK 8u301
- GStreamer 1.18.4 for JDK 8u311 to 8u333
- GStreamer 1.20.1 for JDK 8u341 to 8u401
- GStreamer 1.22.6 for JDK 8u411 to 8u431
- GStreamer 1.24.6 for JDK 8u441
- GStreamer 1.24.10 for JDK 8u451 to 8u471
- GStreamer 1.26.5 for JDK 8u481 and later
- IBM International Components for Unicode (ICU4C) v64.2 for JDK 8u251 to 8u291
- IBM International Components for Unicode (ICU4C) v68.2 for JDK 8u301 to 8u351
- IBM International Components for Unicode (ICU4C) v71.1 for JDK 8u361 to 8u381
- IBM International Components for Unicode (ICU4C) v73.1 for JDK 8u391 to 8u411
- IBM International Components for Unicode (ICU4C) v74.2 for JDK 8u421 to 8u471
- IBM International Components for Unicode (ICU4C) v77.1 for JDK 8u481 and later
- Independent JPEG Group (IJG) JPEG v9d for JDK 8u251 to 8u351
- Independent JPEG Group (IJG) JPEG v9e for JDK 8u361 to 8u411
- Independent JPEG Group (IJG) JPEG v9f for JDK 8u421 and later
- LibFFI v3.2.1 for JDK 8u221 to 8u261
- LibFFI v3.3 for JDK 8u271 to 8u333
- libFFI v3.4.2 for JDK 8u341 to 8u381
- libFFI v3.4.4 for JDK 8u391 to 8u431
- libFFI v3.4.6 for JDK 8u441 and later
- Microsoft DirectShow Samples v156905 for JDK 8u221 and later
- Mesa 3-D Graphics Library v 19.2.1 for JDK 8u251 to 8u301
- Mesa 3-D Graphics Library v 21.0.3 for JDK 8u311 and later
- Mozilla Public Suffix List for JDK 8u291 and later
- xmlsoft.org: libxml2 v2.9.10 for JDK 8u251 to 8u301
- xmlsoft.org: libxml2 v2.9.12 for JDK 8u311 to 8u333
- xmlsoft.org: libxml2 v2.9.14 for JDK 8u341 to 8u371
- xmlsoft.org: libxml2 v2.10.4 for JDK 8u381 to 8u421
- xmlsoft.org: libxml2 v2.12.7 for JDK 8u431 to 8u451
- xmlsoft.org: libxml2 v2.13.8 for JDK 8u461 to 8u471
- xmlsoft.org: libxml2 v2.14.6 for JDK 8u481 and later
- xmlsoft.org: libxslt v1.1.34 for JDK for 8u251 to 8u333
- xmlsoft.org: libxslt v1.1.35 for JDK for 8u341 to 8u401

- xmlsoft.org: libxslt v1.1.39 for JDK for 8u411 to 8u431
- xmlsoft.org: libxslt v1.1.42 for JDK for 8u441 to 8u451
- xmlsoft.org: libxslt v1.1.43 for JDK for 8u461 and later
- WebKit Open Source Project: WebKit v609.1 for JDK 8u251 to 8u261
- WebKit Open Source Project: WebKit v610.1 for JDK 8u271 to 8u281
- WebKit Open Source Project: WebKit v610.2 for JDK 8u291 to 8u301
- WebKit Open Source Project: WebKit v612.1 for JDK 8u311 to 8u321
- WebKit Open Source Project: WebKit v613.1 for JDK 8u331 to 8u341
- WebKit Open Source Project: WebKit v614.1 for JDK 8u351 to 8u361
- WebKit Open Source Project: WebKit v615.1 for JDK 8u371 to 8u381
- WebKit Open Source Project: WebKit v615.1 for JDK 8u391 to 8u401
- WebKit Open Source Project: WebKit v617.1 for JDK 8u411 to 8u421
- WebKit Open Source Project: WebKit v619.1 for JDK 8u431 and 8u441
- WebKit Open Source Project: WebKit v620.1 for JDK 8u451 to 8u461
- WebKit Open Source Project: WebKit v622.1 for JDK 8u471 and later

### **On Enterprise Performance Pack, available as a separate download**

- Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0 for JDK 8u345-perf to 8u371-perf
- Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0 for JDK 8u381-perf and later
- Apache Santuario v2.3.0 for JDK 8u345-perf to 8u401-perf
- Apache Santuario v3.0.3 for JDK 8u411-perf to 8u461-perf
- Apache Santuario v3.0.5 for JDK 8u471-perf and later
- Apache Xalan 2.7.2 for JDK 8u345-perf to 8u401-perf
- Apache Xalan 2.7.3 for JDK 8u411-perf and later
- Apache Xerces 2.12.1 for JDK 8u345-perf
- Apache Xerces 2.12.2 for JDK 8u351-perf and later
- Apache XML Resolver 1.2
- ASM Bytecode Manipulation Framework v5.0.3
- c-libutl 20160225
- Cryptix AES 3.2.0
- CUP Parser Generator for Java 0.11b
- DOM Level 3 Core Specification v1.0
- Dynalink v.5
- Eastman Kodak Company: Portions of color management and imaging software
- Elliptic Curve Cryptography
- freebXML v3.1
- GIFLIB v5.2.1 for JDU 8u345-perf to 8u421-perf
- GIFLIB v5.2.2 for JDK 8u431-perf and later
- IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1
- ICU4J v60.2
- IJG JPEG 6b
- Joni v2.1.40 for JDK 8u345-perf to 8u351-perf
- Joni v2.1.43 for JDK 8u361-perf to 8u401-perf



- Joni v2.2.1 for JDK 8u411-perf to 8u451-perf
- JRuby Joni v2.2.5 for JDK 8u461-perf and later
- jopt-simple v3.0
- libpng 1.6.37 for JDK 8u345-perf to 8u361-perf
- libpng 1.6.38 for JDK 8u371-perf to 8u381-perf
- libpng 1.6.39 for JDK 8u391-perf to 8u401-perf
- libpng 1.6.40 for JDK 8u411-perf to 8u421-perf
- libpng 1.6.43 for JDK 8u431-perf to 8u451-perf
- libpng 1.6.47 for JDK 8u461-perf and later
- libXrandr v1.5.2
- Little CMS 2.12 for JDK 8u345-perf to 8u361-perf
- Little CMS 2.14 for JDK 8u371-perf
- Little CMS 2.15 for JDK 8u381-perf and later
- Little CMS 2.16 for JDK 8u421 to 8u451-perf
- Little CMS 2.17 for JDK 8u461-perf and later
- Mesa 3D Graphics Library v21.0.3
- PC/SC Lite v1.8.26 for JDK 8u345-perf
- PC/SC Lite v1.9.5 for JDK 8u351-perf to 8u381-perf
- PC/SC Lite v1.9.9 for JDK 8u391-perf to 8u441-perf
- PC/SC Lite v2.3.0 for JDK 8u451-perf and later
- PipeWire 0.3.68 (Linux and macOS only) for JDK 8u441-perf to 8u451-perf
- PipeWire 1.3.81 (Linux and macOS only) for JDK 8u461-perf and later
- PKCS #11 Cryptographic Token Interface v3.0 for JDK 8u345-perf to 8u441-perf
- PKCS #11 Cryptographic Token Interface v3.1 for JDK 8u451-perf and later
- Relax NG Object/Parser v.20050510
- RelaxNG Datatype v1.0
- RelaxNGCC v1.12
- SipHash v1.0-68c8a7c
- Thai Dictionary
- Unicode 6.2.0 & CLDR 21.0.1
- xorgproto v2021.4 for JDK 8u345-perf to 8u361-perf
- xorgproto v2022.2 for JDK 8u371-perf to 8u421-perf
- xorgproto v2023.2 (Unix only) for JDK 8u431-perf to 8u451-perf
- xorgproto v2024.1 (Unix only) for JDK 8u461-perf and later
- XWD Utility v1.0.7

**On JMC 9, available as a separate download for JDK 8**

- Angus Mail 2.0.1 for JMC 9
- Angus Mail 2.0.3 for JMC 9.1 to 9.1.1
- Angus Mail 2.0.5 for JMC 9.1.2 and later
- ASM v9.6 for JMC 9
- ASM v9.7.1 for JMC 9.1
- ASM v9.8 for JMC 9.1.1 and later
- D3 7.7.0 for JMC 9

- D3 7.9.0 for JM 9.1 and later
- d3-graphviz 4.1.1 for JMC 9
- d3-graphviz 5.6.0 for JMC 9.1 and later
- d3-flame-graph 4.1.3
- Eclipse Platform 4.30.0 for JMC 9
- Eclipse Platform 4.34.0 for JMC 9.1
- Eclipse Platform 4.36.0 for JMC 9.1.1 and later
- Fireplace 0.0.1.rc3 for JMC 9
- Fireplace 0.0.1.rc.9 for JMC 9.1 and later
- Font Awesome 6.5.1
- HdrHistogram 2.1.12 for JMC 9
- HdrHistogram 2.2.2 for JMC 9.1 and later
- hpcc-js-wasm 1.14.1 for JMC 9
- hpcc-js-wasm 2.18.0 for JMC 9.1 and later
- Jetty 10.0.18 for JMC 9
- Jetty-ee 12.0.15 for JMC 9.1
- Jetty-ee 12.0.21 for JMC 9.1.1 and later
- Jetty-ee9-nested 12.0.15 for JMC 9.1
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- Jetty-ee9-websocket 12.0.15 for JMC 9.1
- Jetty-ee9-websocket 12.0.21 for JMC 9.1.1 and later
- Jetty-slf4j-impl 12.0.21 for JMC 9.1.1 and later
- Jetty-websocket 12.0.15 for JMC 9.1
- Jetty-websocket 12.0.21 for JMC 9.1.1 and later
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- Jolokia-client-jmx-adapter 2.0.2 for JMC 9.1 and later
- Jolokia-service-discover 2.0.2 for JMC 9.1 and later
- lz4 -java 1.8.0 for JMC 9 to 9.1.1
- lz4 -java 1.10.2 for JMC 9.1.2 and later
- OWASP Java Encoder Project 1.2.3
- Radiance 6.0.0 for JMC 9
- Radiance 7.5.0 for JMC 9.1 and later
- SPI Fly 1.3.6 for JMC 9
- SPI Fly 1.3.7 for JMC 9.1 and later

**On JMC 5.5, included with JDK for JDK 8 to 8u251**

- ANTLR v3.2
- Apache Jakarta Commons Codec v1.6.0
- Apache Jakarta Commons HTTPClient 4.2.6
- Apache Jakarta Commons Logging v1.1.1
- Apache Log4J v1.2.15
- ASM 5.0.3
- Eclipse Babel v0.12.0
- Eclipse Modeling Framework v2.10.0
- Eclipse Rich Client Platform v4.4.1
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- Google Guice v3.0.0
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jakarta.activation-api

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Abstract: Part of CoreAudio Utility Classes

Version: 1.1

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File: alocal.m4 (only for ICU4C)

Section: pkg.m4 - Macros to locate and utilise pkg-config.

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## Time Zone Database

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JSON parsing library (nlohmann/json)

File: vendor/json/upstream/single\_include/nlohmann/json.hpp (only for ICU4C)

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File: install-sh (only for ICU4C)

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/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

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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  
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See <https://github.com/carrot2/carrot2>.

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`WordBreakTestUnicode_*.java` (under `modules/analysis/common/src/test/`)

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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File: vendor/json/upstream/single\_include/nlohmann/json.hpp (only for ICU4C)

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

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File: vendor/json/upstream/single\_include/nlohmann/json.hpp (only for ICU4C)

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x86	Anthony Green, Jon Beniston
x86-64	Bo Thorsen

Jesper Skov and Andrew Haley both did more than their fair share of stepping through the code and tracking down bugs.



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mesa-19.2.1\include\GL\glxext.h  
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include/GL/glxext.h  
include/GL/wglxext.h :

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This contains code taken from LLVM's APInt class. That code implements finding the magic numbers for strength-reducing division. The LLVM code on which this code is based was implemented using "Hacker's Delight", Henry S. Warren, Jr., chapter 10.

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This contains code taken from LLVM's APInt class. That code implements finding the magic numbers for strength-reducing division. The LLVM code on which this code is based was implemented using "Hacker's Delight", Henry S. Warren, Jr., chapter 10.

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Vigna, Sebastiano (2014). "Further scramblings of Marsaglia's xorshift generators". arXiv:1404.0390 (<http://arxiv.org/abs/1404.0390>)

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Vigna, Sebastiano (2014). "Further scramblings of Marsaglia's xorshift generators". arXiv:1404.0390 (<http://arxiv.org/abs/1404.0390>)

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Source/WebCore/Modules/badge  
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Source/WebCore/Modules/compression  
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Source/WebCore/Modules/cookie-store  
Source/WebCore/Modules/credentialmanagement  
Source/WebCore/Modules/encryptedmedia  
Source/WebCore/Modules/encryptedmedia/legacy  
Source/WebCore/Modules/entriesapi  
Source/WebCore/Modules/fetch

Source/WebCore/Modules/filesystemaccess  
Source/WebCore/Modules/gamepad  
Source/WebCore/Modules/geolocation  
Source/WebCore/Modules/highlight  
Source/WebCore/Modules/identity  
Source/WebCore/Modules/indexeddb  
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Source/WebCore/Modules/indexeddb/server  
Source/WebCore/Modules/indexeddb/shared  
Source/WebCore/Modules/mediacapabilities  
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Source/WebCore/Modules/web-locks  
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Source/WebCore/PAL/pal/text  
Source/WebCore/Scripts  
Source/WebCore/Scripts/SettingsTemplates  
Source/WebCore  
Source/WebCore/accessibility  
Source/WebCore/accessibility/isolatedtree  
Source/WebCore/animation  
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Source/WebCore/bindings/js  
Source/WebCore/contentextensions  
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Source/WebCore/crypto/openssl  
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Source/WebCore/inspector/agents/page  
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Source/WebCore/layout/formattingContexts  
Source/WebCore/layout/formattingContexts/block  
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Source/WebCore/layout/formattingContexts/flex  
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Source/WebCore/layout/formattingContexts/inline/invalidation  
Source/WebCore/layout/formattingContexts/inline/ruby  
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Source/WebCore/page/linux  
Source/WebCore/page/scrolling  
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Source/WebCore/page/text-extraction  
Source/WebCore/page/writing-tools  
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Source/WebCore/platform/animation  
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Source/WebCore/platform/graphics/texmap/coordinated  
Source/WebCore/platform/graphics/wc  
Source/WebCore/platform/image-decoders/jpegxl  
Source/WebCore/platform/libwebrtc  
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Source/WebCore/platform/mediacapabilities  
Source/WebCore/platform/mediastream  
Source/WebCore/platform/mediastream/libwebrtc  
Source/WebCore/platform/mock  
Source/WebCore/platform/network  
Source/WebCore/platform/network/java  
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Source/WebCore/platform/text/icu  
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Source/WebCore/platform/video-codecs  
Source/WebCore/platform/win  
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Source/WebCore/rendering  
Source/WebCore/rendering/adwaita  
Source/WebCore/rendering/style  
Source/WebCore/rendering/svg  
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Source/WebCore/rendering/updating  
Source/WebCore/storage  
Source/WebCore/style  
Source/WebCore/svg  
Source/WebCore/testing  
Source/WebCore/workers  
Source/WebCore/workers/service  
Source/WebCore/workers/service/background-fetch  
Source/WebCore/workers/service/context  
Source/WebCore/workers/service/server  
Source/WebCore/workers/shared  
Source/WebCore/workers/shared/context  
Source/WebCore/xml  
Source/WebGPU/WGSL/AST  
Source/WebGPU/WGSL  
Source/WebGPU/WGSL/Metal  
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Source/WebCore/html  
Source/WebCore/html/track  
Source/WebCore/page  
Source/WebCore/platform  
Source/WebCore/platform/graphics  
Source/WebCore/platform/graphics/egl  
Source/WebCore/platform/graphics/gbm  
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Source/WebCore/platform/graphics/libwpe  
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Source/WTF/wtf/cocoa

Source/WTF/wtf/simde

Source/WTF/wtf/text

Source/WTF/wtf/win

Source/WebCore/Modules/encryptedmedia

Source/WebCore/Modules/fetch

Source/WebCore/Modules/geolocation

Source/WebCore/Modules/mediarecorder

Source/WebCore/Modules/mediastream  
Source/WebCore/Modules/mediastream/libwebrtc  
Source/WebCore/Modules/speech  
Source/WebCore/accessibility  
Source/WebCore/bindings/js  
Source/WebCore/bindings/scripts  
Source/WebCore/css  
Source/WebCore/css/parser  
Source/WebCore/dom  
Source/WebCore/html  
Source/WebCore/html/parser  
Source/WebCore/inspector  
Source/WebCore/inspector/agents  
Source/WebCore/loader  
Source/WebCore/loader/cache  
Source/WebCore/page  
Source/WebCore/platform  
Source/WebCore/platform/cf  
Source/WebCore/platform/graphics/controls  
Source/WebCore/platform/graphics/opentype  
Source/WebCore/platform/mediarecorder  
Source/WebCore/platform/mediastream  
Source/WebCore/platform/mediastream/libwebrtc  
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Source/WebCore/Modules/indexeddb  
Source/WebCore/Modules/webaudio  
Source/WebCore/accessibility  
Source/WebCore/bindings/js  
Source/WebCore/css  
Source/WebCore/dom  
Source/WebCore/html  
Source/WebCore/html/canvas  
Source/WebCore/loader/cache  
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Source/WebCore/PAL/ThirdParty/dav1d  
Source/WebCore/PAL/ThirdParty/dav1d/src/arm/32  
Source/WebCore/PAL/ThirdParty/dav1d/src/arm/64  
Source/WebCore/PAL/ThirdParty/dav1d/src/arm  
Source/WebCore/PAL/ThirdParty/dav1d/src  
Source/WebCore/PAL/ThirdParty/dav1d/src/ppc  
Source/WebCore/PAL/ThirdParty/dav1d/src/win32  
Source/WebCore/PAL/ThirdParty/dav1d/src/x86  
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This contains code taken from LLVM's APInt class. That code implements finding the magic numbers for strength-reducing division. The LLVM code on which this code is based was implemented using "Hacker's Delight", Henry S. Warren, Jr., chapter 10.

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- Source/JavaScriptCore/API/tests
- Source/JavaScriptCore/Scripts
- Source/JavaScriptCore/Scripts/wkbuiltings
- Source/JavaScriptCore
- Source/JavaScriptCore/b3
- Source/JavaScriptCore/b3/air
- Source/JavaScriptCore/builtins
- Source/JavaScriptCore/bytecode
- Source/JavaScriptCore/debugger
- Source/JavaScriptCore/dfg
- Source/JavaScriptCore/generator
- Source/JavaScriptCore/heap
- Source/JavaScriptCore/inspector
- Source/JavaScriptCore/inspector/agents
- Source/JavaScriptCore/inspector/remote
- Source/JavaScriptCore/inspector/remote/socket
- Source/JavaScriptCore/inspector/remote/socket/posix
- Source/JavaScriptCore/inspector/remote/socket/win
- Source/JavaScriptCore/inspector/scripts/codegen
- Source/JavaScriptCore/inspector/scripts
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- Source/JavaScriptCore/jit
- Source/JavaScriptCore/lint
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- Source/JavaScriptCore/tools
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- Source/WTF/Scripts/Preferences
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Source/WebCore/html/track  
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Source/WebCore/platform/graphics/egl  
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Source/WTF/wtf/text  
Source/WTF/wtf/win  
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Source/WebCore/Modules/compression  
Source/WebCore/Modules/indexeddb  
Source/WebCore/Modules/webaudio  
Source/WebCore/accessibility  
Source/WebCore/bindings/js  
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Source/WebCore/html  
Source/WebCore/html/canvas  
Source/WebCore/loader/cache  
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Source/WebCore/css/values/color  
Source/WebCore/css/values/easing  
Source/WebCore/css/values/filter-effects  
Source/WebCore/css/values/motion  
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Source/WebCore/css/values/shapes  
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Vigna, Sebastiano (2014). "Further scramblings of Marsaglia's xorshift generators". arXiv:1404.0390 (<http://arxiv.org/abs/1404.0390>)

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## Appendixes

### Appendix 1: Optional JRE Files and Directories

The following optional files, found on the JRE installer or package, can be excluded for redistribution purposes:

lib/ext/ [Everything under this directory can be excluded]  
sunjce\_provider.jar, sunec.jar, sunpkcs11.jar and sunmscapi.jar - JCA/JCE providers for Java Cryptography APIs. Some providers are not available on all OS or Architectures. The runtime environment must contain at least one implementation of each of the requiredSecurity algorithms as described in:  
<http://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html>  
localedata.jar - contains many of the resources needed for non US English locales  
dnsns.jar - for the InetAddress SSL of JNDI DNS provider

bin/rmid - [.exe, and .dll on Microsoft Windows] Java RMI Activation System Daemon  
bin/rmiregistry - Java Remote Object Registry  
bin/tnameserv - Java IDL Name Server  
bin/keytool - Key and Certificate Management Tool  
bin/kinit - [Microsoft Windows] Used to obtain and cache Kerberos ticket-granting tickets  
bin/klist - [Microsoft Windows] Kerberos display entries in credentials cache and keytab  
bin/ktab - [Microsoft Windows] Kerberos key table manager  
bin/policytool - Policy File Creation and Management Tool  
bin/orbd - Object Request Broker Daemon

bin/servertool - Java IDL Server Tool  
bin/javaws and lib/javaws.jar - Java Web Start  
lib/jfr and lib/jfr.jar - Flight Recorder Files  
lib/oblique-fonts/\*  
lib/desktop/\*  
plugin/\*

When redistributing the JRE on Microsoft Windows as a private application runtime (not accessible by other applications) with a custom launcher, the following files are also optional. These are libraries and executables that are used for Java support in Internet Explorer and Mozilla family browsers.

bin\java.exe  
bin\javaw.exe  
bin\javaws.exe  
bin\javacpl.exe  
bin\jucheck.exe  
bin\dtplugin  
bin\jabswitch.exe  
bin\java\_crw\_demo.dll  
bin\JavaAccessBridge-32.dll  
bin\JavaAccessBridge.dll  
bin\JAWTAccessBridge-32.dll  
bin\JAWTAccessBridge.dll  
bin\WindowsAccessBridge-32.dll  
bin\WindowsAccessBridge.dll  
bin\wsdetect.dll  
bin\dtplugin\\*  
bin\plugin2\\*  
bin\deploy.dll  
bin\jfr.dll  
bin\javacpl.cpl  
lib\deploy.jar  
lib\plugin.jar  
lib\deploy\\*

**All JavaFX-related files may be excluded from redistribution.**

THIRDPARTYLICENSEREADME-JAVAFX.txt [As long as you don't include any other JavaFX related files] - JavaFX third-party license information

lib/ant-javafx.jar - JavaFX packager ant tasks  
lib/javafx.properties - JavaFX properties file  
lib/jfxswt.jar

JavaFX native libraries [Microsoft Windows]:  
bin\decora-sse.dll  
bin\fxplugins.dll

bin\glass.dll  
bin\glib-lite.dll  
bin\gstreamer-lite.dll  
bin\javafx-font.dll  
bin\javafx\_font\_t2k.dll  
bin\javafx-iio.dll  
bin\jfxmedia.dll  
bin\jfxwebkit.dll  
bin\prism\_common.dll  
bin\prism-d3d.dll  
bin\prism\_es2.dll  
bin\prism\_sw.dll

JavaFX native libraries [Mac OS X]:

lib/fxplugins.dylib  
lib/libdecora\_sse.so  
lib/libdecora-sse.dylib  
lib/libfxplugins.so  
lib/libglass.dylib  
lib/libglib-lite.dylib  
lib/libgstreamer-lite.dylib  
lib/libjavafx\_font\_t2k.dylib  
lib/libjavafx-font.dylib  
lib/libjavafx-iio.dylib  
lib/libjfxmedia.dylib  
lib/libjfxwebkit.dylib  
lib/libprism\_common.dylib  
lib/libprism\_sw.dylib  
lib/libprism-es2.dylib

JavaFX native libraries [Linux-i586]:

lib/i386/libdecora\_sse.so  
lib/i386/libfxplugins.so  
lib/i386/libglass.so  
lib/i386/libgstreamer-lite.so  
lib/i386/libjavafx\_font\_freetype.so  
lib/i386/libjavafx\_font\_pango.so  
lib/i386/libjavafx\_font\_t2k.so  
lib/i386/libjavafx-font.so  
lib/i386/libjavafx-iio.so  
lib/i386/libjfxmedia.so  
lib/i386/libjfxwebkit.so  
lib/i386/libprism\_common.so  
lib/i386/libprism\_es2.so  
lib/i386/libprism\_sw.so

JavaFX native libraries [Linux-x64]:

lib/amd64/libdecora\_sse.so

lib/amd64/libprism\_common.so  
lib/amd64/libprism\_es2.so  
lib/amd64/libprism\_sw.so  
lib/amd64/libfxplugins.so  
lib/amd64/libglass.so  
lib/amd64/libgstreamer-lite.so  
lib/amd64/libjavafx\_font\_freetype.so  
lib/amd64/libjavafx\_font\_pango.so  
lib/amd64/libjavafx\_font\_t2k.so  
lib/amd64/libjavafx-font.so  
lib/amd64/libjavafx-iiio.so  
lib/amd64/libjfxmedia.so  
lib/amd64/libjfxwebkit.so  
lib/amd64/libprism-es2.so

These files are located in the JRE directory. Solaris and Linux filenames and separators are shown. Windows executables have the ".exe" suffix. Corresponding files with \_g in the name can also be excluded.

The corresponding man pages should be excluded for any excluded executables (with paths listed below beginning with bin/, for the Solaris™ Operating System and Linux).

## **Appendix 2: Redistributable JDK Files**

The limited set of files from the Java SE Development Kit (JDK) listed below may be included in redistributions of the Java SE Runtime Environment. All paths are relative to the top-level directory of the JDK. The corresponding man pages should be included for any included executables (with paths listed below beginning with bin/ , for the Solaris Operating System and Linux).

lib/cmm/PYCC.pf Color profile; This file is required only if one wishes to convert between the PYCC color space and another color space.

All .ttf font files in the lib/fonts directory

Note that the LucidaSansRegular.ttf font is already contained in the Java SE Runtime Environment, so there is no need to bring that file over from the JDK.

The javac bytecode compiler, consisting of the following files:

bin/javac [Solaris™ Operating System, Linux and OS X]  
bin/sparcv9/javac [Solaris Operating System (SPARC(R) Platform Edition)]  
bin/amd64/javac [Solaris Operating System (AMD)]  
bin\javac.exe [Microsoft Windows]  
lib/tools.jar [All platforms]

lib/jconsole.jar - The Jconsole application.

The dynamic attach mechanism consisting of the following files:

lib/tools.jar/ [All platforms]

jre/lib/sparcv9/libattach.so [Solaris Operating System (SPARC(R) Platform Edition)]

jre/lib/i386/libattach.so [Linux (x86)]

jre/lib/amd64/libattach.so [Solaris Operating System (x64) and Linux (x64)]

jre\bin\attach.dll [Microsoft Windows]

The dynamic attach mechanism is not available for the JDK on ARM.

bin\server\ - On Microsoft Windows platforms, the JDK includes both the Java HotSpot™ Server VM and Java HotSpot Client VM. However, the Java SE Runtime Environment for Microsoft Windows platforms includes only the Java HotSpot Client VM. Those wishing to use the Java HotSpot Server VM with the Java SE Runtime Environment may copy the JDK's jre\bin\server folder to a bin\server directory in the Java SE Runtime Environment. Software vendors may redistribute the Java HotSpot Server VM with their redistributions of the Java SE Runtime Environment.

bin/jarsigner - JAR Signing and verification tool.

src.zip - Archive of source files