Licensing Information User Manual Oracle Java SE 8 and Oracle Java SE 8 Embedded Products Last updated: 2025/10/21

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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

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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.

<u>Legacy Oracle Java SE Advanced and Oracle Java SE Advanced for</u> 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.

<u>Legacy Oracle Java SE Advanced Desktop and Oracle Java SE Advanced</u> 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 <u>Oracle Technology Network License Agreement</u>. 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	Oracle Java SE Advanced	Oracle Java SE Desktop Subscription	Oracle Java SE Advanced Desktop	Oracle Java SE Suite	Oracle Java SE Embedded
Java Runtime Environment (JRE)	Υ	Subscription Y	Υ	Υ	Υ	Υ	Υ
 Java Virtual Machine (JVM) Java Standard Libraries JavaFX Runtime (for applicable versions) 							
Java Deployment Technologies	Υ	Y	Y	Y	Y	Υ	Υ
PluginWeb start							
Java SE Development Kit (JDK)	Υ	Y	Y	Y	Υ	Υ	Υ
 JavaFX SDK Libraries (for applicable versions) 							
Java SE Subscription Enterprise Performance Pack	N	Y	N	N	N	N	N
GraalVM Enterprise Edition	N	Y	N	Υ	N	N	N
Through GraalVM for JDK 24							
Java SE Development Kit for embedded devices	N	N	N	N	N	N	Υ
Java Flight Recorder – for Desktop	N	Y	Υ	Υ	Υ	Υ	Υ
Java Flight Recorder – for Server	N	Υ	Y	N	N	Y	Y
Java/JDK Mission Control	N	Y	Y	Υ	Y	Υ	Y

Java SE Enterprise Installer	N	Y	Y	Υ	Υ	Y	N
JRE Usage Tracking	N	Υ	Υ	Υ	Υ	Υ	Υ
Jipher	N	Υ	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.

Package	Contents	Features Available
Oracle Java SE Runtime Environment (JRE) - Standard Installer	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.	 Java Runtime Environment Java Deployment Technologies (Plugin & Webstart) Java Flight Recorder JRE Usage Tracking
Oracle Java SE Runtime Environment (JRE) - MSI Installer	Same content as the JRE Standard Installer but packaged in a format optimized for mass automated distribution, rather than for manual installation. Available only for Windows systems.	- Java Runtime Environment - Java Deployment Technologies (Plugin & Webstart) - Java Flight Recorder - JRE Usage Tracking
Oracle Java SE Runtime Environment (JRE) - Server Installer	Similar content to that of the JRE Standard Installer but includes tools and components typically required for running and monitoring Java Server applications. Excludes Java Deployment Technologies	 - Java SE Enterprise Installer - Java Runtime Environment - Java Flight Recorder - JRE Usage Tracking
Oracle Java SE Development Kit (JDK)	Targeted for developers of Java applications. Includes a complete Java Runtime Environment plus many tools required for developing, debugging, monitoring, and documenting Java Programs.	 - Java SE Development Kit - Java Runtime Environment - Java Deployment Technologies (Plugin & Webstart) - Java Flight Recorder - JRE Usage Tracking
Oracle Java SE Subscription Enterprise Performance Pack	High performance headless Java SE 8 runtime for server applications. Available only for Linux systems.	- Java Runtime Environment - JRE Usage Tracking

GraalVM Enterprise Edition	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	Java SE Development KitJava Runtime EnvironmentJava Flight RecorderGraalVM Enterprise Edition
Java/JDK Mission Control	JDK Mission Control (JMC) is an advanced set of tools for managing, monitoring, profiling, and troubleshooting Java applications.	- Java/JDK Mission Control
Java/JDK Mission Control	Plugin for using Java/JDK Mission Control as an Eclipse Add-on.	- Java/JDK Mission Control
(Eclipse Plugin)	Requires Eclipse Rich Client Platform (RCP) which is separately available from the Eclipse Foundation's website.	
	Oracle does not provide support for the Java/JDK Mission Control Eclipse Plugin.	
Oracle TZUpdater	Utility for updating the time zone database, included with the Java Runtime Environment, with the information provided on the IANA Time Zone Database updates	
Jipher	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
Java Mission Control	Restricted Use
	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.
	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.
	For Example: A company has 10 servers licensed for Java Flight Recorder and monitored from four workstations.
	 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 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.

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 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 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 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 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
- o 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 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
- o 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
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- 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
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- Fireplace 0.0.1.rc3 for JMC 9
- Fireplace 0.0.1.rc.9 for JMC 9.1 and later
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- 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
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Abstract: Part of CoreAudio Utility Classes

Version: 1.1

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ASM v9.6, v9.7.1, and v9.8

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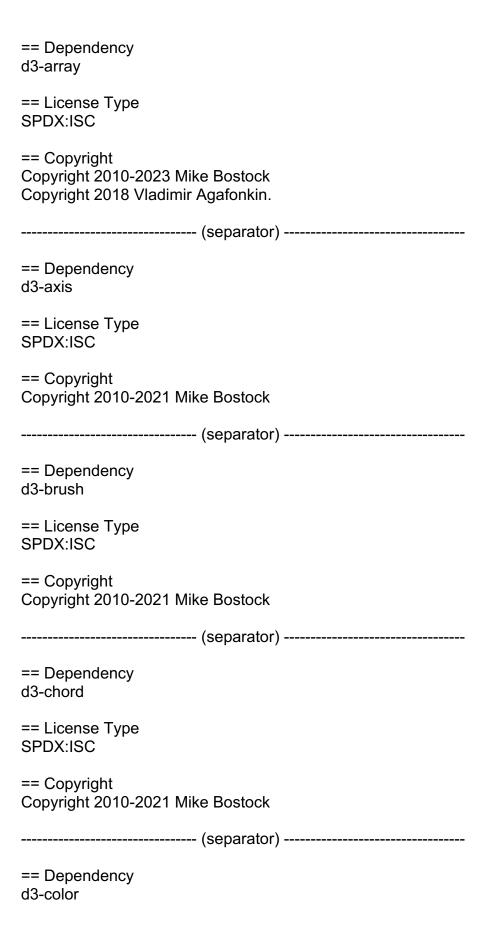
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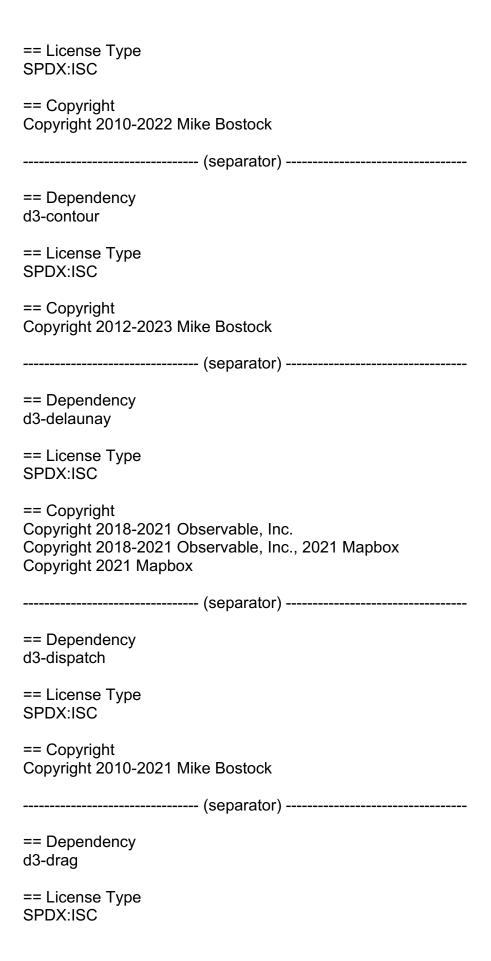
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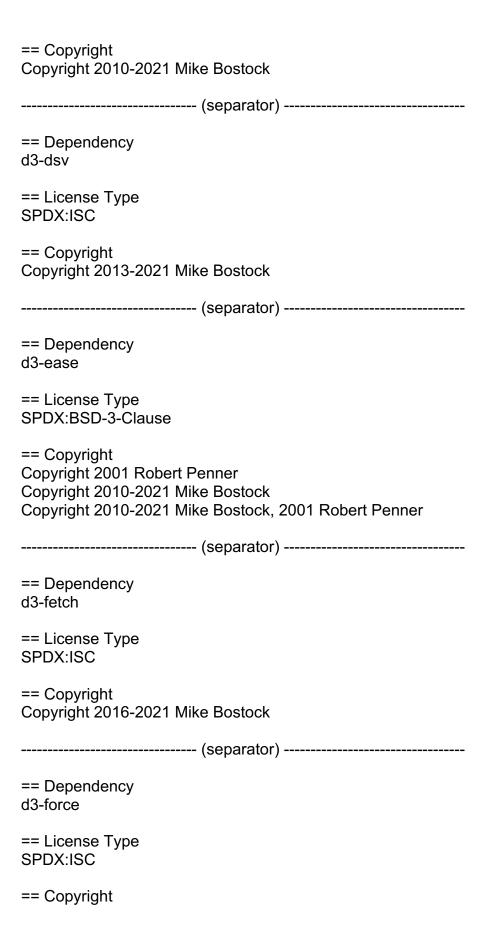
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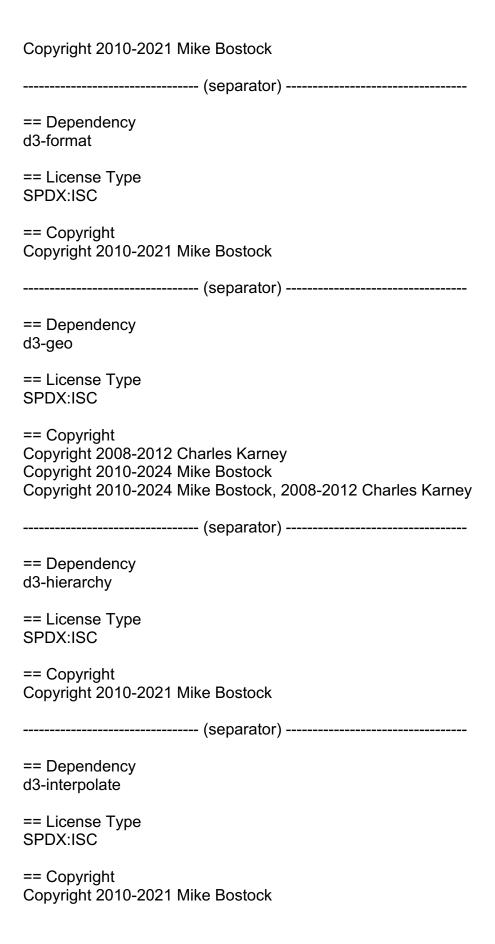
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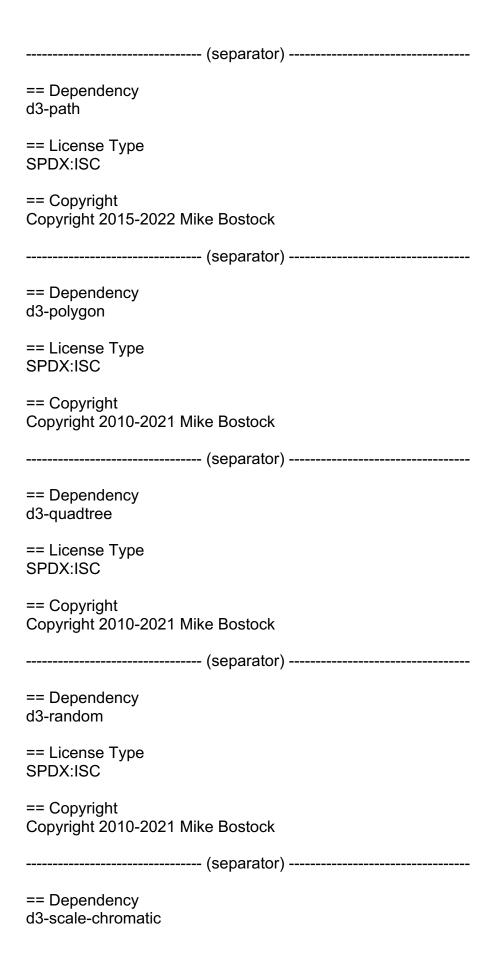
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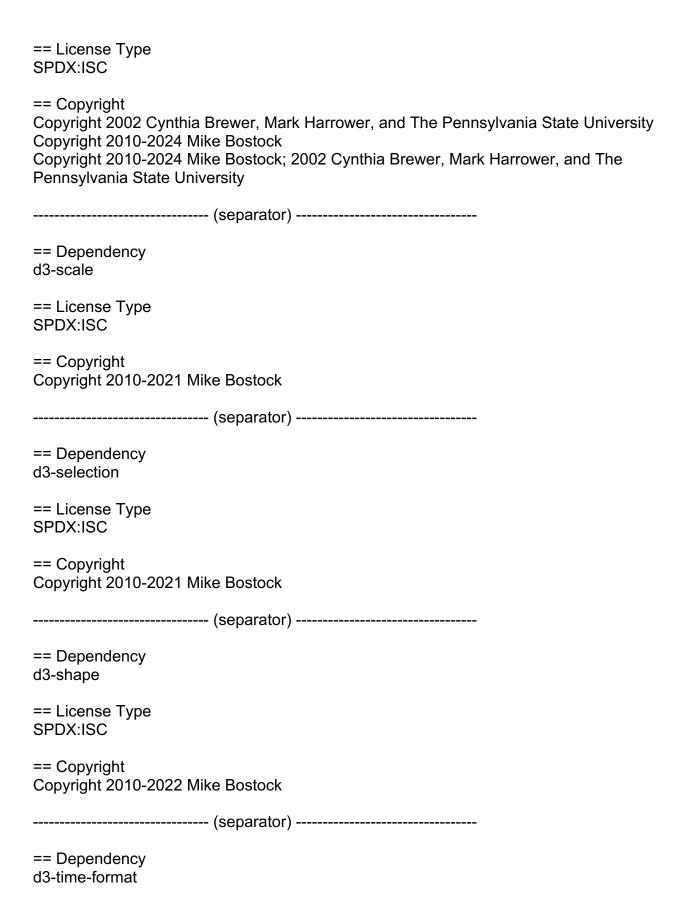


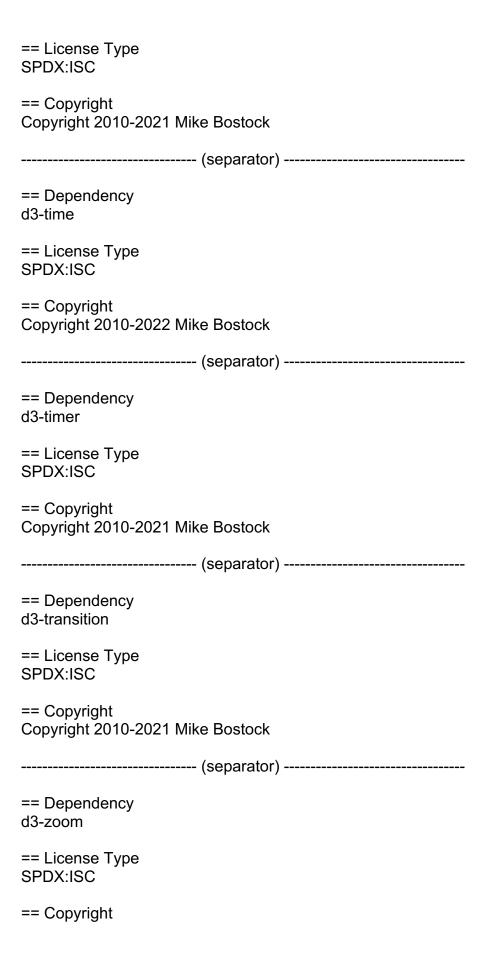


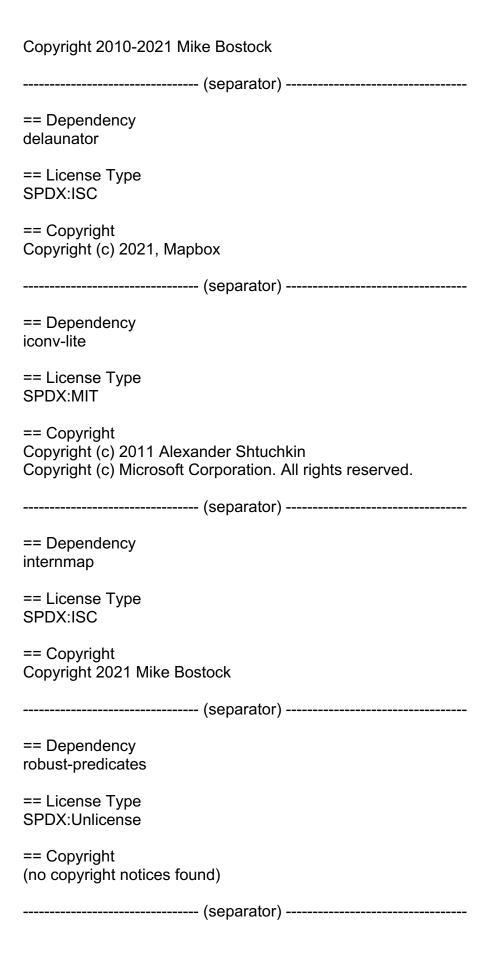


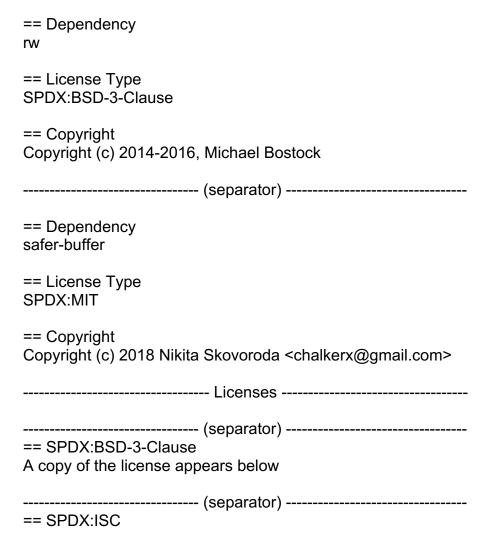












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File: aclocal.m4 (only for ICU4C)

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

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File: vendor/json/upstream/single_include/nlohmann/json.hpp (only for ICU4C) MIT License

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

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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org.osgi.service.component 1.5.1.202212101352.jar
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org.osgi.service.metatype 1.4.1.202109301733.jar
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org.apache.httpcomponents.client5.httpclient5-win_5.2.3.v20231203-1619.jar (Apache 2.0)

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org.jdom_1.1.3.v20230812-1600.jar

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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 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 https://github.com/carrot2/carrot2.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.

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The Morfologik analyzer (morfologik) includes BSD-licensed software

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(https://github.com/morfologik/morfologik-stemming) and uses data from the BSD-licensed dictionary of Polish (SGJP, http://sgjp.pl/morfeusz/).

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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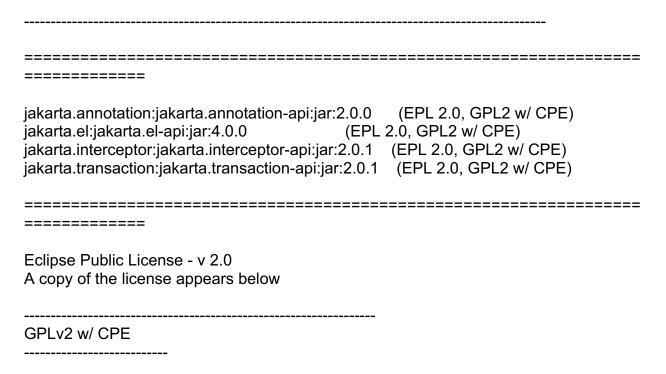
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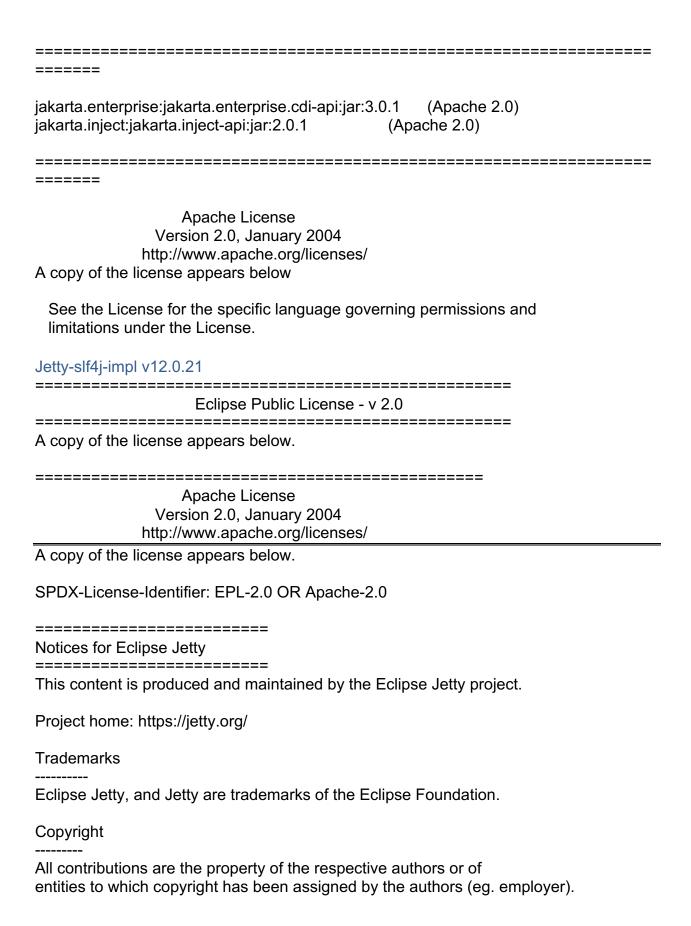
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Jesper Skov and Andrew Haley both did more than their fair share of stepping through the code and tracking down bugs.

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mesa-19.2.1\include\GL\gl.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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Vigna, Sebastiano (2014). "Further scramblings of Marsaglia's xorshift generators". arXiv:1404.0390 (http://arxiv.org/abs/1404.0390)

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Source/WebGPU/WebGPU

Source/WebKitLegacy/Storage

Source/WebKitLegacy/WebCoreSupport

Source/WebKitLegacy/java/WebCoreSupport

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Source/bmalloc/libpas/src/chaos

Source/bmalloc/libpas/src/libpas

Source/bmalloc/libpas/src/mbmalloc

Source/bmalloc/libpas/src/test

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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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Source/WebCore/Modules/notifications

Source/WebCore/Modules/plugins

Source/WebCore/Modules/speech

Source/WebCore/Modules/streams

Source/WebCore/Modules/webaudio

Source/WebCore/Modules/webdatabase

Source/WebCore/Modules/websockets

Source/WebCore/PAL/pal

Source/WebCore/PAL/pal/system

Source/WebCore/PAL/pal/text

Source/WebCore/PAL/pal/unix

Source/WebCore/PAL/pal/win

Source/WebCore/accessibility

Source/WebCore/accessibility/isolatedtree

Source/WebCore/animation

Source/WebCore/bindings/java

Source/WebCore/bindings/js

Source/WebCore/bindings/scripts

Source/WebCore/bridge

Source/WebCore/bridge/jsc

Source/WebCore/crypto/openssl

Source/WebCore/css

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Source/WebCore/css/typedom

Source/WebCore/css/typedom/color

Source/WebCore/css/typedom/numeric

Source/WebCore/css/typedom/transform

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Source/WebCore/domjit

Source/WebCore/editing

Source/WebCore/fileapi

Source/WebCore/history

Source/WebCore/html

Source/WebCore/html/canvas

Source/WebCore/html/parser

Source/WebCore/html/shadow

Source/WebCore/html/track

Source/WebCore/inspector

Source/WebCore/inspector/agents

Source/WebCore/layout/integration

Source/WebCore/layout/layouttree

Source/WebCore/loader

Source/WebCore/loader/appcache

Source/WebCore/loader/cache

Source/WebCore/loader/icon

Source/WebCore/mathml

Source/WebCore/page

Source/WebCore/page/scrolling

Source/WebCore/page/skia

Source/WebCore/platform

Source/WebCore/platform/animation

Source/WebCore/platform/cf

Source/WebCore/platform/gamepad

Source/WebCore/platform/graphics

Source/WebCore/platform/graphics/angle

Source/WebCore/platform/graphics/controls

Source/WebCore/platform/graphics/coreimage

Source/WebCore/platform/graphics/coretext

Source/WebCore/platform/graphics/cv

Source/WebCore/platform/graphics/displaylists

Source/WebCore/platform/graphics/filters

Source/WebCore/platform/graphics/filters/skia

Source/WebCore/platform/graphics/filters/software

Source/WebCore/platform/graphics/harfbuzz

Source/WebCore/platform/graphics/iso

Source/WebCore/platform/graphics/opentype

Source/WebCore/platform/graphics/re

Source/WebCore/platform/graphics/skia

Source/WebCore/platform/graphics/texmap

Source/WebCore/platform/graphics/texmap/coordinated

Source/WebCore/platform/graphics/transforms

Source/WebCore/platform/image-decoders

Source/WebCore/platform/image-decoders/avif

Source/WebCore/platform/image-decoders/gif

Source/WebCore/platform/image-decoders/jpeg

Source/WebCore/platform/image-decoders/png

Source/WebCore/platform/image-decoders/skia

Source/WebCore/platform/mediastream

Source/WebCore/platform/mock

Source/WebCore/platform/mock/mediasource

Source/WebCore/platform/network

Source/WebCore/platform/playstation

Source/WebCore/platform/skia

Source/WebCore/platform/soup

Source/WebCore/platform/sql

Source/WebCore/platform/text

Source/WebCore/platform/win

Source/WebCore/platform/xdg

Source/WebCore/rendering

Source/WebCore/rendering/style

Source/WebCore/rendering/svg

Source/WebCore/storage

Source/WebCore/style

Source/WebCore/svg

Source/WebCore/svg/animation

Source/WebCore/svg/graphics

Source/WebCore/svg/graphics/filters

Source/WebCore/svg/properties

Source/WebCore/workers

Source/WebCore/workers/service/context

Source/WebCore/worklets

Source/WebCore/xml

Source/WebCore/xml/parser

Source/WebGPU/WGSL

Source/WebGPU/WGSL/AST

Source/WebGPU/WebGPU

Source/WebKitLegacy/Storage

Source/WebKitLegacy/WebCoreSupport

Source/WebKitLegacy/java/WebCoreSupport

Source/bmalloc/bmalloc

Source/bmalloc/libpas/src/chaos

Source/bmalloc/libpas/src/libpas

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Source/bmalloc/libpas/src/test

Source/bmalloc/libpas/src/toys

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Source/JavaScriptCore/API

Source/JavaScriptCore/API/tests

Source/JavaScriptCore/Scripts

Source/JavaScriptCore/Scripts/wkbuiltins

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/scripts/codegen

Source/JavaScriptCore/inspector/scripts

Source/JavaScriptCore/interpreter

Source/JavaScriptCore/jit

Source/JavaScriptCore/Ilint

Source/JavaScriptCore/offlineasm

Source/JavaScriptCore/parser

Source/JavaScriptCore/runtime

Source/JavaScriptCore/tools

Source/JavaScriptCore/yarr

Source/WTF/Scripts

Source/WTF/Scripts/Preferences

Source/WTF/wtf

Source/WTF/wtf/cf

Source/WTF/wtf/cocoa

Source/WTF/wtf/darwin

Source/WTF/wtf/fuchsia

Source/WTF/wtf/generic

Source/WTF/wtf/mac

Source/WTF/wtf/persistence

Source/WTF/wtf/posix

Source/WTF/wtf/spi/cocoa

Source/WTF/wtf/spi/darwin

Source/WTF/wtf/text

Source/WTF/wtf/text/cf

Source/WTF/wtf/text/cocoa

Source/WTF/wtf/text/icu

Source/WTF/wtf/text/win

Source/WTF/wtf/threads

Source/WTF/wtf/win

Source/WebCore/Modules/ShapeDetection

Source/WebCore/Modules/ShapeDetection/Interfaces

Source/WebCore/Modules/airplay

Source/WebCore/Modules/applepay-ams-ui

Source/WebCore/Modules/applepay

Source/WebCore/Modules/applepay/paymentrequest

Source/WebCore/Modules/applicationmanifest

Source/WebCore/Modules/async-clipboard

Source/WebCore/Modules/audiosession

Source/WebCore/Modules/badge

Source/WebCore/Modules/beacon

Source/WebCore/Modules/cache

Source/WebCore/Modules/compression

Source/WebCore/Modules/contact-picker

Source/WebCore/Modules/cookie-consent

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

Source/WebCore/Modules/indexeddb/client

Source/WebCore/Modules/indexeddb/server

Source/WebCore/Modules/indexeddb/shared

Source/WebCore/Modules/mediacapabilities

Source/WebCore/Modules/mediarecorder

Source/WebCore/Modules/mediasession

Source/WebCore/Modules/mediasource

Source/WebCore/Modules/mediastream

Source/WebCore/Modules/model-element

Source/WebCore/Modules/model-element/dummy

Source/WebCore/Modules/modern-media-controls/controls

Source/WebCore/Modules/modern-media-controls/media

Source/WebCore/Modules/notifications

Source/WebCore/Modules/paymentrequest

Source/WebCore/Modules/permissions

Source/WebCore/Modules/pictureinpicture

Source/WebCore/Modules/push-api

Source/WebCore/Modules/remoteplayback

Source/WebCore/Modules/reporting

Source/WebCore/Modules/screen-wake-lock

Source/WebCore/Modules/speech

Source/WebCore/Modules/storage

Source/WebCore/Modules/streams

Source/WebCore/Modules/system-preview

Source/WebCore/Modules/web-locks

Source/WebCore/Modules/webaudio

Source/WebCore/Modules/webauthn

Source/WebCore/Modules/webauthn/fido

Source/WebCore/Modules/webcodecs

Source/WebCore/Modules/webdriver

Source/WebCore/Modules/webgpu

Source/WebCore/Modules/webgpu/Implementation

Source/WebCore/Modules/webgpu/InternalAPI

Source/WebCore/Modules/websockets

Source/WebCore/Modules/webtransport

Source/WebCore/Modules/webxr

Source/WebCore/PAL/pal

Source/WebCore/PAL/pal/PALSwift

Source/WebCore/PAL/pal/crypto

Source/WebCore/PAL/pal/crypto/commoncrypto

Source/WebCore/PAL/pal/crypto/gcrypt

Source/WebCore/PAL/pal/crypto/openssl

Source/WebCore/PAL/pal/crypto/tasn1

Source/WebCore/PAL/pal/system

Source/WebCore/PAL/pal/text

Source/WebCore/Scripts

Source/WebCore/Scripts/SettingsTemplates

Source/WebCore

Source/WebCore/accessibility

Source/WebCore/accessibility/isolatedtree

Source/WebCore/animation

Source/WebCore/bindings

Source/WebCore/bindings/js

Source/WebCore/contentextensions

Source/WebCore/crypto

Source/WebCore/crypto/algorithms

Source/WebCore/crypto/gcrypt

Source/WebCore/crypto/keys

Source/WebCore/crypto/openssl

Source/WebCore/crypto/parameters

Source/WebCore/css

Source/WebCore/css/calc

Source/WebCore/css/color

Source/WebCore/css/parser

Source/WebCore/cssjit

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Source/WebCore/dom/messageports

Source/WebCore/domjit

Source/WebCore/editing

Source/WebCore/editing/libwpe

Source/WebCore/fileapi

Source/WebCore/history

Source/WebCore/html

Source/WebCore/html/canvas

Source/WebCore/html/parser

Source/WebCore/html/shadow

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Source/WebCore/inspector/agents/page

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Source/WebCore/layout

Source/WebCore/layout/floats

Source/WebCore/layout/formattingContexts

Source/WebCore/layout/formattingContexts/block

Source/WebCore/layout/formattingContexts/block/tablewrapper

Source/WebCore/layout/formattingContexts/flex

Source/WebCore/layout/formattingContexts/inline

Source/WebCore/layout/formattingContexts/inline/display

Source/WebCore/layout/formattingContexts/inline/invalidation

Source/WebCore/layout/formattingContexts/inline/ruby

Source/WebCore/layout/formattingContexts/inline/text

Source/WebCore/layout/formattingContexts/table

Source/WebCore/layout/integration

Source/WebCore/layout/integration/flex

Source/WebCore/layout/integration/inline

Source/WebCore/layout/layouttree

Source/WebCore/loader

Source/WebCore/loader/archive

Source/WebCore/loader/cache

Source/WebCore/page

Source/WebCore/page/csp

Source/WebCore/page/linux

Source/WebCore/page/scrolling

Source/WebCore/page/scrolling/nicosia

Source/WebCore/page/text-extraction

Source/WebCore/page/writing-tools

Source/WebCore/platform

Source/WebCore/platform/adwaita

Source/WebCore/platform/animation

Source/WebCore/platform/audio

Source/WebCore/platform/calc

Source/WebCore/platform/cf

Source/WebCore/platform/encryptedmedia

Source/WebCore/platform/gamepad

Source/WebCore/platform/gamepad/libwpe

Source/WebCore/platform/gamepad/manette

Source/WebCore/platform/generic

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Source/WebCore/platform/graphics/skia

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Source/WebCore/platform/graphics/texmap/coordinated

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Source/WebCore/platform/image-decoders/jpegxl

Source/WebCore/platform/libwebrtc

Source/WebCore/platform/libwpe

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

Source/WebCore/platform/network/playstation

Source/WebCore/platform/playstation

Source/WebCore/platform/text

Source/WebCore/platform/text/hyphen

Source/WebCore/platform/text/icu

Source/WebCore/platform/unix

Source/WebCore/platform/video-codecs

Source/WebCore/platform/win

Source/WebCore/plugins

Source/WebCore/rendering

Source/WebCore/rendering/adwaita

Source/WebCore/rendering/style

Source/WebCore/rendering/svg

Source/WebCore/rendering/svg/legacy

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/WebKitLegacy/Storage

Source/WebKitLegacy/WebCoreSupport

Source/WebKitLegacy/scripts

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Source/WebCore/bridge/jni/jsc

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

Source/WebCore/platform/graphics/lcms

Source/WebCore/platform/graphics/libwpe

Source/WebCore/platform/graphics/skia

Source/WebCore/platform/image-decoders/jpegxl

Source/WebCore/platform/mediastream

Source/WebCore/platform/network

Source/WebCore/platform/network/java

Source/WebCore/platform/playstation

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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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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/WebCore/inspector/agents

Source/WebCore/inspector/agents/page

Source/WebCore/inspector/agents/worker

Source/WebCore/layout

Source/WebCore/layout/floats

Source/WebCore/layout/formattingContexts

Source/WebCore/layout/formattingContexts/block

Source/WebCore/layout/formattingContexts/block/tablewrapper

Source/WebCore/layout/formattingContexts/flex

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Source/WebCore/loader/cache

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Source/WebCore/page/csp

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Source/WebCore/platform/text

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Source/WebCore/platform/unix

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Source/WebCore/platform/win

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Source/WebCore/rendering/adwaita

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Source/WebCore/storage

Source/WebCore/style

Source/WebCore/style/values/color

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

Source/WebGPU/WebGPU/Internal

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Source/WebCore/html/track

Source/WebCore/page

Source/WebCore/platform

Source/WebCore/platform/graphics

Source/WebCore/platform/graphics/egl

Source/WebCore/platform/graphics/gbm

Source/WebCore/platform/graphics/lcms

Source/WebCore/platform/graphics/skia

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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/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

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Source/WebCore/html/canvas

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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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xorgproto v2022.2

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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 required Security 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\ifr.dll bin\javacpl.cpl lib\deploy.jar lib\plugin.jar lib\deploy*

All JavaFX-related files may be excluded from redistribution.

All JavaFX related files:

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\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_e3d.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/libifxwebkit.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-iio.so

lib/amd64/libjfxmedia.so

lib/amd64/libjfxwebkit.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