

OPENSOURCE CREDIT DOCUMENT

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NOTICES:

COMPONENT NAME	VERSION	HOME PAGE URL (SOURCE)	LICENSE
ch.qos.logback	1.1.3, 1.2.3	logback-core	Eclipse Public License - v 1.0, GNU Lesser General Public License
com.eclipsesource.minimal-json	0.9.4	minimal-json	MIT License
com.fasterxml	1.3.4	classmate	Apache v2.0
jackson-annotations	2.9.0, 2.9.8, 2.10.3	jackson-annotations	Apache v2.0
jackson-core	2.9.8, 2.9.9, 2.10.3	jackson-core	Apache v2.0
jackson-databind	2.9.8, 2.9.9, 2.10.3	jackson-databind	Apache v2.0
com.github.dhorions	1.5	https://github.com/dhorions/boxable	Apache v2.0
btf	1.2	btf	Lesser General Public License, version 3 or greater, Apache v2.0
msg-simple	1.1	https://github.com/fge/msg-simple	Lesser General Public License, version 3 or greater, Apache v2.0
uri-template	0.9	uri-template	Lesser General Public License, version 3 or greater, Apache v2.0
jackson-coreutils	1.9	jackson-coreutils	Lesser General Public License, version 3 or greater, Apache Software License, version 2.0
json-schema-core	1.2.10	json-schema-core	Lesser General Public License, version 3 or greater, Apache v2.0
json-schema-validator	2.2.10	json-schema-validator	Lesser General Public License, version 3 or greater, Apache v2.0
json-flattener	0.2.2	json-flattener	Apache v2.0

proto-google-common-protos	1.0.0	proto-google-common-protos	Apache v2.0
jsr 305	3.0.2	https://mvnrepository.com/artifact/com.google.code.findbugs/jsr305	Apache v2.0
com.google.code.findbugs	1.3.9, 3.0.1	jsr305	Apache v2.0
gson	2.5	https://github.com/google/gson	Apache v2.0
GSON	2.8.5	https://github.com/google/gson	Apache v2.0
errorprone	2.1.3, 2.2.0	https://github.com/google/error-prone	Apache v2.0
com.google.guava	26.0-android	guava	Apache v2.0
com.google.guava	20, 25.0-jre, 29.0-jre	guava	Apache v2.0
com.google.j2objc	1.1	j2objc-annotations	Apache v2.0
com.google.protobuf	3.6.1	protobuf-java	BSD 3-clause "New" or "Revised" License
Protobuf Java Util	3.6.1	protobuf-java-util	BSD 3-clause "New" or "Revised" License
com.googlecode.libphonenumber	8.0.0	libphonenumber	Apache v2.0
com.jayway.jsonpath	2.4.0	json-path	Apache v2.0
jzlib	1.1.3	jzlib	BSD 3-clause "New" or "Revised" License
c3p0	0.9.5.4	c3p0	GNU Lesser General Public License, Version 2.1, Eclipse Public License, Version 1.0
mchange-commons-java	0.2.15	mchange-commons-java	GNU Lesser General Public License, Version 2.1, Eclipse Public License, Version 1.0
amqp-client	5.7.0	https://www.rabbitmq.com/	Apache 2.0, GPL v2, MPL 1.1
istack-commons-runtime	3.0.7	istack-commons-runtime	CDDL + GPLv2 with classpath exception
jersey-client	1.19.4	https://eclipse-ee4j.github.io/jersey/	CDDL + GPLv2 with classpath exception

jerseycore	1.19.4	jersey-core	CDDL + GPLv2 with classpath exception
com.sun.mail	1.6.2	javax.mail	CDDL + GPLv2 with classpath exception
com.sun.mail	1.6.0	javax.mail	CDDL + GPLv2 with classpath exception
com.sun.xml.fastinfoset	1.2.15	FastInfoset	Apache v2.0
com.vaadin.external.google	0.0.20131108.vaadin1	android-json	Apache v2.0
com.zaxxer	2.4.13	HikariCP-java7	Apache v2.0
commons-cli	1.4	commons-cli	Apache v2.0
commons-codec	1.13	commons-codec	Apache v2.0
commons-codec	1.1	commons-codec	Apache v2.0
commons-codec	1.12	commons-codec	Apache v2.0
commons-fileupload	1.4	commons-fileupload	Apache v2.0
commons-io	2.6	commons-io	Apache v2.0
commons-io	1.3.2	commons-io	Apache v2.0
commons-io	2.2,2.8.0	commons-io	Apache v2.0
commons-logging	1.2	commons-logging	Apache v2.0
commons-net	3.6	commons-net	Apache v2.0
grpc-context	1.17.1	grpc-context	Apache v2.0
grpc-core	1.17.1	grpc-core	Apache v2.0
grpc-netty	1.17.1	grpc-netty	Apache v2.0
grpc-protobuf	1.17.1	grpc-protobuf	Apache v2.0

grpc-protobuf-lite	1.17.1	grpc-protobuf-lite	Apache v2.0
grpc-stub	1.17.1	grpc-stub	Apache v2.0
netty-buffer	4.1.30.Final	netty-buffer	Apache v2.0
netty-codec	4.1.30.Final	netty-codec	Apache v2.0
netty-codec-http	4.1.30.Final	netty-codec-http	Apache v2.0
netty-codec-http2	4.1.30.Final	netty-codec-http2	Apache v2.0
netty-codec-socks	4.1.30.Final	netty-codec-socks	Apache v2.0
netty-common	4.1.30.Final	netty-common	Apache v2.0
netty-handler	4.1.30.Final	netty-handler	Apache v2.0
netty-handler-proxy	4.1.30.Final	netty-handler-proxy	Apache v2.0
netty-resolver	4.1.30.Final	netty-resolver	Apache v2.0
netty-tcnative-boringssl-static	2.0.20.Final	netty-tcnative-boringssl-static	Apache v2.0
netty-transport	4.1.30.Final	netty-transport	Apache v2.0
netty-buffer	4.1.35.Final	netty-buffer	Apache v2.0
netty-codec	4.1.35.Final	netty-codec	Apache v2.0
netty-codec-http	4.1.35.Final	netty-codec-http	Apache v2.0
netty-codec-socks	4.1.35.Final	netty-codec-socks	Apache v2.0
netty-common	4.1.35.Final	netty-common	Apache v2.0
netty-handler	4.1.35.Final	netty-handler	Apache v2.0
netty-handler-proxy	4.1.35.Final	netty-handler-proxy	Apache v2.0

netty-resolver	4.1.35.Final	netty-resolver	Apache v2.0
netty-transport	4.1.35.Final	netty-transport	Apache v2.0
io.opencensus	0.17.0	opencensus-api	Apache v2.0
io.opencensus	0.17.0	opencensus-contrib-grpc-metrics	Apache v2.0
jakarta.annotation	1.3.4	jakarta.annotation-api	EPL 2.0, GPL2 with class path exception
jakarta.ws.rs	2.1.5	jakarta.ws.rs-api	EPL 2.0, GPL2 with class path exception
activation	1.1	activation	CDDL + GPLv2 with classpath exception
javax.activation-api	1.2.0	javax.activation-api	CDDL + GPLv2 with classpath exception
javax.annotation-api	1.3.2	javax.annotation-api	CDDL + GPLv2 with classpath exception
javax.mail	1.4.3	mailapi	CDDL + GPLv2 with classpath exception
javax.persistence	2.2	javax.persistence-api	Eclipse Public License v1.0, Eclipse Distribution License v. 1.0
javax.servlet	3.1.0, 4.0.1	javax.servlet-api	CDDL + GPLv2 with classpath exception
javax.validation	2.0.1.Final	validation-api	Apache License, Version 2.0
jsr311	1.1.1	https://mvnrepository.com/artifact/javax.ws.rs/jsr311-api/1.1.1	CDDL License
jaxb-api	2.3.1	jaxb-api	CDDL + GPLv2 with classpath exception
jaxb-api	2.4.0-b180830.0359	https://mvnrepository.com/artifact/javax.xml.bind/jaxb-api/2.4.0-b180830.0359	CDDL
joda-time	2.9.7	joda-time	Apache v2.0
junit	3.8.1, 4.12, 4.13.1	junit	Eclipse Public License 1.0
bytebuddy	1.8.15, 1.9.10	https://mvnrepository.com/artifact/net.bytebuddy/byte-buddy	Apache v2.0

access smart	1.2	https://mvnrepository.com/artifact/net.minidev/accessors-smart	Apache v2.0
json smart	2.3	https://mvnrepository.com/artifact/net.minidev/json-smart	Apache v2.0
jopt-simple	5.0.3	https://mvnrepository.com/artifact/net.sf.jopt-simple/jopt-simple	MIT License
htmlunit	2.34.1	https://mvnrepository.com/artifact/net.sourceforge.htmlunit/htmlunit	Apache v2.0
htmlunit core js	2.34.0	https://mvnrepository.com/artifact/net.sourceforge.htmlunit/htmlunit-core-js	Apache v2.0
htmlunit css parser	1.3.0	https://mvnrepository.com/artifact/net.sourceforge.htmlunit/htmlunit-cssparser	Apache v2.0
neko htmlunit	2.34.0	https://mvnrepository.com/artifact/net.sourceforge.htmlunit/neko-htmlunit	Apache v2.0
commons-lang3	3.8.1, 3.9	commons-lang3	Apache v2.0
commons-text	1.3, 1.6, 1.8	commons-text	Apache v2.0
commons-compress	1.18, 1.19, 1.20	commons-compress	Apache v2.0
commons-math3	3.6.1	commons-math3	Apache v2.0
commons-csv	1.6	commons-csv	Apache v2.0
commons-collections4	4.2	commons-collections4	Apache v2.0
commons-text	1.3	commons-text	Apache v2.0
commons-lang3	3.4, 3.8.1, 3.9	commons-lang3	Apache v2.0
httpclient	4.5.10	httpclient	Apache v2.0
httpcore	4.4.11, 4.4.12	httpcore	Apache v2.0
httpmime	4.5.7, 4.5.12	httpmime	Apache v2.0

httpclient	4.5.6	httpclient	Apache v2.0
httpcore	4.4.10	httpcore	Apache v2.0
log4j-api	2.13.2	log4j-api	Apache v2.0
log4j-core	2.13.2	log4j-core	Apache v2.0
log4j-api	2.11.1	log4j-api	Apache v2.0
log4j-core	2.11.2	log4j-core	Apache v2.0
surefire-testng	2.22.0, 3.0.0-M3	surefire-testng	Apache v2.0
common-java5	2.22.0, 3.0.0-M3	common-java5	Apache v2.0
surefire-api	2.22.0, 3.0.0-M3	surefire-api	Apache v2.0
surefire-grouper	2.22.0, 3.0.0-M3	surefire-grouper	Apache v2.0
surefire-logger-api	2.22.0, 3.0.0-M3	surefire-logger-api	Apache v2.0
surefire-testng-utils	2.22.0, 3.0.0-M3	surefire-testng-utils	Apache v2.0
pdfbox	2.0.15	pdfbox	Apache v2.0
fontbox	2.0.15	fontbox	Apache v2.0
tomcat-embed-core	9.0.21	tomcat-embed-core	Apache v2.0
tomcat-embed-el	9.0.21	tomcat-embed-el	Apache v2.0
tomcat-embed-websocket	9.0.21	tomcat-embed-websocket	Apache v2.0
velocity-engine-core	2	velocity-engine-core	Apache v2.0
velocity-engine-scripting	2	velocity-engine-scripting	Apache v2.0
bcpkix-jdk15on	1.6	bcpkix-jdk15on	Bouncy Castle Licence

bcprov-jdk15on	1.6	bcprov-jdk15on	Bouncy Castle Licence
bcmail-jdk15on	1.6	bcmail-jdk15on	Bouncy Castle Licence
org.checkerframework	2..0.0, 2.5.2	checker-compat-qual	MIT License
org.codehaus.mojo	1.14, 1.17	animal-sniffer-annotations	MIT License
org.dom4j	2.1.1	dom4j	BSD 3-clause "New" or "Revised" License
jetty-client	9.4.15.v20190215	jetty-client	Apache v2.0, Eclipse Public License - Version 1.0
jetty-http	9.4.15.v20190215	jetty-http	Apache v2.0, Eclipse Public License - Version 1.0
jetty-io	9.4.15.v20190215	jetty-io	Apache v2.0, Eclipse Public License - Version 1.0
jetty-util	9.4.15.v20190215	jetty-util	Apache v2.0, Eclipse Public License - Version 1.0
jetty-xml	9.4.15.v20190215	jetty-xml	Apache v2.0, Eclipse Public License - Version 1.0
org.eclipse.jetty.websocket	9.4.15.v20190215	websocket-api	Apache v2.0, Eclipse Public License - Version 1.0
org.eclipse.jetty.websocket	9.4.15.v20190215	websocket-client	Apache v2.0, Eclipse Public License - Version 1.0
org.eclipse.jetty.websocket	9.4.15.v20190215	websocket-common	Apache v2.0, Eclipse Public License - Version 1.0
javax.json	1.1.4	javax.json	CDDL + GPLv2 with classpath exception
osgi-resource-locator	1.0.1	osgi-resource-locator	CDDL + GPLv2 with classpath exception
org.glassfish.hk2.external	2.5.0	jakarta.inject	EPL 2.0, GPL2 with class path exception
jaxb-runtime	2.3.1	jaxb-runtime	CDDL + GPLv2 with classpath exception
txw2	2.3.1	txw2	CDDL + GPLv2 with classpath exception
org.glassfish.jersey.containers	2.28	jersey-container-servlet-core	EPL 2.0GPL2 with class path exception

jersey core client	2.28	https://mvnrepository.com/artifact/org.glassfish.jersey.core/jersey-client/2.28	CDDL 1.1, GPL1.1
jersey.common	2.28	https://mvnrepository.com/artifact/org.glassfish.jersey.core/jersey-common/2.28	Apache v2.0, EPL 2.0, GPL 2.0, public
jersey.core server	2.28	https://mvnrepository.com/artifact/org.glassfish.jersey.core/jersey-server/2.28	BSD, Apache 2.0, EPL 2.0, GPL2
jersey.media jaxb	2.28	https://mvnrepository.com/artifact/org.glassfish.jersey.media/jersey-media-jaxb	Apache 2.0, BSD, EPL, EDL, MIT, w3c and public license
org.hamcrest	1.3	hamcrest-library	New BSD License
org.hamcrest core	1.3	https://mvnrepository.com/artifact/org.hamcrest/hamcrest-core	New BSD License
org.hibernate core	5.4.17.Final	https://mvnrepository.com/artifact/org.hibernate/hibernate-core	GNU Library General Public License v2.1 or later
org.hibernate.common	5.1.0.Final	hibernate-commons-annotations	GNU Library General Public License v2.1 or later
org.hibernate.validator	6.0.17.Final	hibernate-validator	Apache v2.0
org.hyperledger.fabric-sdk-java	1.4.9	fabric-sdk-java	Apache v2.0
org.javassist	3.24.0-GA	https://mvnrepository.com/artifact/org.javassist/javassist/3.24.0-GA	MPL 1.1, LGPL 2.1, Apache License 2.0
jandex	2.0.5.Final	https://mvnrepository.com/artifact/org.jboss/jandex/2.0.5.Final	Apache v2.0
jboss.logging	3.3.2.Final	https://mvnrepository.com/artifact/org.jboss.logging/jboss-logging/3.3.2.Final	Apache v2.0
jboss-transaction-api_1.2_spec	1.1.1.Final	https://mvnrepository.com/artifact/org.jboss.spec.javax.transaction/jboss-transaction-api_1.2_spec	CDDL , EPL+ GPLv2 with classpath exception
org.jsoup	1.11.3	jsoup	MIT License
stax-ex	1.8	stax-ex	CDDL + GPLv2 with classpath exception

org.miracl.milagro.amcl	0.4.0	milagro-crypto-java	Apache v2.0
org.mockito	1.10.19	mockito-all	MIT License
org.mock-server	5.5.4	mockserver-netty	Apache v2.0
org.mock-server	5.5.4	mockserver-client-java	Apache v2.0
org.mock-server	5.5.4	mockserver-core	Apache v2.0
rhino	1.7.7.1	https://github.com/mozilla/rhino	Mozilla Public License, Version 2.0
org.neo4j.driver	1.7.3	neo4j-java-driver	Apache v2.0
asm	5.0.4	https://asm.ow2.io/	BSD 3-clause "New" or "Revised" License
org.postgresql	42.2.14	postgresql	BSD 2-clause
quartz	2.3.2	quartz	Apache v2.0
quartz-jobs	2.3.1	quartz-jobs	Apache v2.0
org.skyscreamer	1.5.0	jsonassert	Apache v2.0
org.slf4j	1.7.7	slf4j-api	MIT License
spring-context	5.2.3,5.2.8.RELEASE	https://mvnrepository.com/artifact/org.springframework/spring-context	Apache v2.0
spring-core	5.2.3,5.2.8.RELEASE	https://mvnrepository.com/artifact/org.springframework/spring-core	Apache v2.0
spring-jdbc	5.2.3,5.2.8.RELEASE	https://mvnrepository.com/artifact/org.springframework/spring-jdbc	Apache v2.0
spring-webmvc	5.2.3,5.2.8.RELEASE	https://mvnrepository.com/artifact/org.springframework/spring-webmvc	Apache v2.0
spring-test	5.2.3,5.2.8.RELEASE	https://mvnrepository.com/artifact/org.springframework/spring-test/5.1.5.RELEASE	Apache v2.0

spring-aop	5.2.3	https://mvnrepository.com/artifact/org.springframework/spring-aop/5.1.5.RELEASE	Apache v2.0
spring-beans	5.2.3	https://mvnrepository.com/artifact/org.springframework/spring-beans/5.1.5.RELEASE	Apache v2.0
spring-expression	5.2.3	spring-expression	Apache v2.0
spring-jcl	5.2.3	spring-jcl	Apache v2.0
spring-tx	5.1.6.RELEASE	spring-tx	Apache v2.0
spring-web	5.2.3 RELEASE,5.2.8. RELEASE	spring-web	Apache v2.0
spring-boot-dependencies	2.2.4	spring-boot-dependencies	Apache v2.0
spring-boot-starter	2.2.4,2.3.3.RELEASE	spring-boot-starter	Apache v2.0
spring-boot-starter-web	2.3.0.RELEASE, 2.3.3.RELEASE	spring-boot-starter-web	Apache v2.0
spring-boot-devtools	2.2.4,2.3.3.RELEASE	spring-boot-devtools	Apache v2.0
spring-boot	2.2.4,2.3.3.RELEASE	spring-boot	Apache v2.0
spring-boot-autoconfigure	2.2.4	spring-boot-autoconfigure	Apache v2.0
spring-boot-starter-tomcat	2.2.4	spring-boot-s+D290:D316tarter-tomcat	Apache v2.0
org.springframework ldap	2.3.2.RELEASE	spring-ldap-core	Apache v2.0
org.springframework.security	5.2.1,5.3.4.RELEASE	spring-security-config	Apache v2.0
org.testng	7.1.0	testng	Apache v2.0
org.xmlunit	2.6.2	xmlunit-core	Apache v2.0
org.yaml	1.23	snakeyaml	Apache v2.0
org.yaml	1.12	snakeyaml	Apache v2.0

xalan	2.7.2	serializer	Apache v2.0
xalan	2.7.2	xalan	Apache v2.0
xerces	2.12.0	xercesImpl	Apache v2.0
xml-apis	1.4.01	xml-apis	The Apache v2.0, The W3C License
xom	1..2.10	http://xom.nu/	The GNU Lesser General Public License, Version 2.1
com.beust	1.48	jcommander	Apache v2.0
com.fasterxml.jackson.datatype	2.9.9	jackson-datatype-jdk8	Apache v2.0
com.fasterxml.jackson.datatype	2.9.9	jackson-datatype-jsr310	Apache v2.0
com.fasterxml.jackson.module	2.9.9	jackson-module-parameter-names	Apache v2.0
com.squareup.okio	1.14.0	okio	Apache v2.0
org.apache.xmlgraphics	1.11	batik-constants	Apache v2.0
batik-css	1.11	https://mvnrepository.com/artifact/org.apache.xmlgraphics/batik-css/1.7	Apache v2.0
org.apache.xmlgraphics	1.11	batik-i18n	Apache v2.0
org.apache.xmlgraphics	1.11	batik-util	Apache v2.0
org.apache.xmlgraphics	2.3	xmlgraphics-commons	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-firefox-driver	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-java	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-api	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-chrome-driver	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-edge-driver	Apache v2.0

org.seleniumhq.selenium	3.141.59	selenium-ie-driver	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-opera-driver	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-remote-driver	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-safari-driver	Apache v2.0
org.seleniumhq.selenium	3.141.59	selenium-support	Apache v2.0
org.springframework.boot	2.1.6.RELEASE	spring-boot-starter-json	Apache v2.0
org.springframework.boot	2.1.6.RELEASE	spring-boot-starter-tomcat	Apache v2.0
xml-apis	1.3.04	xml-apis-ext	Apache v2.0
org.owasp.esapi	2.2.0.0	esapi	BSD, Creative Commons 3.0 BY-SA
commons-beanutils	1.9.4	commons-beanutils	Apache v2.0
commons-collections	3.2.2	commons-collections	Apache v2.0
commons-configuration	1.1	commons-configuration	Apache v2.0
commons-lang	2.6	commons-lang	Apache v2.0
com.squareup.okhttp3	3.11.0	okhttp	Apache v2.0
spring-context-support	5.1.5.RELEASE	https://mvnrepository.com/artifact/org.springframework/spring-context-support	Apache v2.0
org.ehcache	3.8.1	https://mvnrepository.com/artifact/org.ehcache/ehcache/3.8.1	Apache v2.0
angular/animations	6.1.10	https://www.npmjs.com/package/@angular/animations/v/6.1.10	MIT License
angular/cdk	6.4.7	https://www.npmjs.com/package/@angular/cdk/v/6.4.7	MIT License
angular/common	6.1.10	https://www.npmjs.com/package/@angular/common/v/6.1.10	MIT License

angular/core	6.1.10	https://www.npmjs.com/package/@angular/core/v/6.1.10	MIT License
angular/forms	6.1.10	https://www.npmjs.com/package/@angular/forms/v/6.1.10	MIT License
angular/material	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/button	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/checkbox	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/core	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/datepicker	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/dialog	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/form-field	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/icon	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/list	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/paginator	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/progress-bar	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/progress-spinner	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License
angular/material/radio	6.4.7	https://www.npmjs.com/package/@angular/material/v/6.4.7	MIT License

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1. rhino

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

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

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1. xom

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

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