

IP360-DP 9.2.0 - Use of Third-Party Libraries

Name	License Type
dbus-glib 0.86 (Academic Free License 2.1)	AFL-2.1
hal 0.5.14 (AFL-2.1)	AFL-2.1
hal-info 20090716 (AFL-2.1)	AFL-2.1
hal-libs 0.5.14 (AFL-2.1)	AFL-2.1
antlr 2.7.7 (ANTLR 2 Public Domain License)	ANTLR-PD
commons-el 1.0 (Apache 1.1)	Apache-1.1
commons-logging 1.0.3 (Apache v1.1)	Apache-1.1
oro 2.0.8 (Apache 1.1)	Apache-1.1
sitemesh 2.4 (Apache 1.1)	Apache-1.1
activemq-broker 5.15.12 (Apache-2.0)	Apache-2.0
activemq-broker 5.15.8 (Apache-2.0)	Apache-2.0
activemq-broker 5.15.9 (Apache-2.0)	Apache-2.0
activemq-camel 5.15.12 (Apache-2.0)	Apache-2.0
activemq-camel 5.15.8 (Apache-2.0)	Apache-2.0
activemq-client 5.14.2 (Apache-2.0)	Apache-2.0
activemq-client 5.15.12 (Apache-2.0)	Apache-2.0
activemq-client 5.15.8 (Apache-2.0)	Apache-2.0
activemq-client 5.15.9 (Apache-2.0)	Apache-2.0
activemq-core 5.6.0 (Apache-2.0)	Apache-2.0
activemq-http 5.15.8 (Apache-2.0)	Apache-2.0
activemq-jms-pool 5.15.12 (Apache-2.0)	Apache-2.0
activemq-jms-pool 5.15.8 (Apache-2.0)	Apache-2.0
activemq-kahadb-store 5.15.12 (Apache-2.0)	Apache-2.0
activemq-kahadb-store 5.15.8 (Apache-2.0)	Apache-2.0
activemq-mqtt 5.15.8 (Apache-2.0)	Apache-2.0
activemq-openwire-legacy 5.15.12 (Apache-2.0)	Apache-2.0
activemq-openwire-legacy 5.15.8 (Apache-2.0)	Apache-2.0
activemq-openwire-legacy 5.15.9 (Apache-2.0)	Apache-2.0
activemq-pool 5.15.12 (Apache-2.0)	Apache-2.0

Name	License Type
activemq-pool 5.15.8 (Apache-2.0)	Apache-2.0
activemq-protobuf 1.1 (Apache-2.0)	Apache-2.0
activemq-spring 5.15.12 (Apache-2.0)	Apache-2.0
activemq-spring 5.15.8 (Apache-2.0)	Apache-2.0
activemq-stomp 5.15.12 (Apache-2.0)	Apache-2.0
activemq-stomp 5.15.8 (Apache-2.0)	Apache-2.0
apr 1.6.2 (Apache-2.0)	Apache-2.0
apr-util 1.6.0 (Apache-2.0)	Apache-2.0
awaitility 1.7.0 (Apache-2.0)	Apache-2.0
bcrypt 3.1.4 (Apache-2.0)	Apache-2.0
bcrypt 3.1.7 (MIT License)	Apache-2.0
boto3 1.10.39 (Apache-2.0)	Apache-2.0
botocore 1.13.39 (Apache v2.0)	Apache-2.0
bsh 2.0b6 (Apache v2.0)	Apache-2.0
cache 1.0.1 (Apache v2.0)	Apache-2.0
camel-core 2.19.5 (Apache-2.0)	Apache-2.0
camel-core 2.24.3 (Apache-2.0)	Apache-2.0
camel-jms 2.19.5 (Apache-2.0)	Apache-2.0
camel-jms 2.24.3 (Apache-2.0)	Apache-2.0
camel-spring 2.19.5 (Apache-2.0)	Apache-2.0
camel-spring 2.24.3 (Apache-2.0)	Apache-2.0
cas-client-core 3.2.1 (Apache v2.0)	Apache-2.0
cglib 2.2 (Apache 2.0)	Apache-2.0
cglib 2.2.1-v20090111 (Apache-2.0)	Apache-2.0
cglib-nodep 3.1 (Apache-2.0)	Apache-2.0
commons-beanutils 1.8.3 (Apache 2.0)	Apache-2.0
commons-codec 1.10 (Apache-2.0)	Apache-2.0
commons-codec 1.6 (Apache 2.0)	Apache-2.0
commons-collections 3.2.1 (Apache 2.0)	Apache-2.0
commons-dbcp 1.4 (Apache 2.0)	Apache-2.0
commons-fileupload 1.2.2 (Apache 2.0)	Apache-2.0
commons-io 2.1 (Apache 2.0)	Apache-2.0

Name	License Type
commons-io 2.5 (Apache-2.0)	Apache-2.0
commons-logging 1.1.1 (Apache-2.0)	Apache-2.0
commons-logging 1.2 (Apache-2.0)	Apache-2.0
commons-pool 1.5.6 (Apache 2.0)	Apache-2.0
commons-pool 1.6 (Apache 2.0)	Apache-2.0
commons-pool2 2.4.2 (Apache-2.0)	Apache-2.0
commons-pool2 2.8.0 (Apache-2.0)	Apache-2.0
commons-validator 1.3.1 (Apache 2.0)	Apache-2.0
concurrentlinkedhashmap-lru 1.3.1 (Apache 2.0)	Apache-2.0
cryptography 2.6.1 (Apache-2.0)	Apache-2.0
database-migration 1.3.8 (Apache v2.0)	Apache-2.0
djangosaml2 0.17.2 (Apache-2.0)	Apache-2.0
ehcache-core 2.4.6 (Apache 2.0)	Apache-2.0
equalsverifier 1.7.5 (Apache-2.0)	Apache-2.0
error_prone_annotations 2.1.3 (Apache-2.0)	Apache-2.0
error_prone_annotations 2.3.4 (Apache-2.0)	Apache-2.0
failureaccess 1.0.1 (Apache v2.0)	Apache-2.0
fasterxml-jackson-databind 2.9.6 (Apache-2.0)	Apache-2.0
geronimo-j2ee-management_1.1_spec 1.0.1 (Apache-2.0)	Apache-2.0
geronimo-jms_1.1_spec 1.1.1 (Apache-2.0)	Apache-2.0
geronimo-jta_1.0.1B_spec 1.0.1 (Apache-2.0)	Apache-2.0
geronimo-jta_1.1_spec 1.1.1 (Apache-2.0)	Apache-2.0
gpars 1.2.1 (Apache v2.0)	Apache-2.0
grails-bootstrap 2.2.1 (Apache 2.0)	Apache-2.0
grails-core 2.2.1 (Apache v2.0)	Apache-2.0
grails-crud 2.2.1 (Apache 2.0)	Apache-2.0
grails-datastore-core 1.1.5.RELEASE (Apache 2.0)	Apache-2.0
grails-datastore-gorm 1.1.5.RELEASE (Apache v2.0)	Apache-2.0
grails-datastore-simple 1.1.5.RELEASE (Apache 2.0)	Apache-2.0
grails-hibernate 2.2.1 (Apache 2.0)	Apache-2.0
grails-logging 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-codecs 2.2.1 (Apache 2.0)	Apache-2.0

Name	License Type
grails-plugin-controllers 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-converters 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-datasource 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-domain-class 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-filters 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-gsp 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-i18n 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-log4j 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-mimetypes 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-scaffolding 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-services 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-servlets 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-url-mappings 2.2.1 (Apache 2.0)	Apache-2.0
grails-plugin-validation 2.2.1 (Apache 2.0)	Apache-2.0
grails-resources 2.2.1 (Apache 2.0)	Apache-2.0
grails-spring 2.2.1 (Apache 2.0)	Apache-2.0
grails-web 2.2.1 (Apache 2.0)	Apache-2.0
groovy-all 2.0.7 (Apache 2.0)	Apache-2.0
groovy-all 2.4.17 (Apache v2.0)	Apache-2.0
guava 13.0.1 (Apache-2.0)	Apache-2.0
guava 18.0 (Apache-2.0)	Apache-2.0
guava 21.0 (Apache-2.0)	Apache-2.0
guava 25.1 (Apache-2.0)	Apache-2.0
guava 28.2 (Apache-2.0)	Apache-2.0
guava-retrying 2.0.0 (Apache v2.0)	Apache-2.0
guice 3.0 (Apache 2.0)	Apache-2.0
guice 4.0 (Apache v2.0)	Apache-2.0
guice 4.1.0 (Apache v2.0)	Apache-2.0
guice 4.2.2 (Apache v2.0)	Apache-2.0
guice-assistedinject 4.0 (Apache v2.0)	Apache-2.0
guice-multibindings 4.0 (Apache v2.0)	Apache-2.0
guice-servlet 4.0 (Apache v2.0)	Apache-2.0

Name	License Type
guice-throwingproviders 4.0 (Apache v2.0)	Apache-2.0
hamcrest-all 1.1 (Apache-2.0)	Apache-2.0
hawtbuf 1.11 (Apache-2.0)	Apache-2.0
hawtdispatch 1.22 (Apache-2.0)	Apache-2.0
hawtdispatch-transport 1.22 (Apache-2.0)	Apache-2.0
hibernate 2.2.1 (Apache-2.0)	Apache-2.0
hibernate-validator 4.1.0 (Apache-2.0)	Apache-2.0
httpclient 4.5.6 (Apache-2.0)	Apache-2.0
httpcore 4.4.10 (Apache-2.0)	Apache-2.0
httpd 2.4.39.tw1.bcentos6 (Apache-2.0)	Apache-2.0
ipaddr 2.1.11 (Apache-2.0)	Apache-2.0
ipaddr-py 2.1.10 (Apache-2.0)	Apache-2.0
j2objc-annotations 1.1 (Apache-2.0)	Apache-2.0
j2objc-annotations 1.3 (Apache-2.0)	Apache-2.0
jackson-annotations 2.10.4 (Apache-2.0)	Apache-2.0
jackson-annotations 2.9.0 (Apache-2.0)	Apache-2.0
jackson-annotations 2.9.10 (Apache-2.0)	Apache-2.0
jackson-core 2.10.4 (Apache-2.0)	Apache-2.0
jackson-core 2.9.10 (Apache-2.0)	Apache-2.0
jackson-core 2.9.6 (Apache-2.0)	Apache-2.0
jackson-core 2.9.8 (Apache-2.0)	Apache-2.0
jackson-databind 2.10.4 (Apache-2.0)	Apache-2.0
jackson-databind 2.9.10.3 (Apache-2.0)	Apache-2.0
jackson-databind 2.9.6 (Apache-2.0)	Apache-2.0
jackson-databind 2.9.8 (Apache-2.0)	Apache-2.0
javassist 3.16.1-GA (Apache 2.0)	Apache-2.0
javax.inject 1 (Apache 2.0)	Apache-2.0
jcommander 1.72 (Apache v2.0)	Apache-2.0
jetty-all 9.2.25 (Apache-2.0)	Apache-2.0
jetty-runner 9.1.0 (Apache-2.0)	Apache-2.0
jmx 0.8 (Apache v2.0)	Apache-2.0
joda-time 1.6.2 (Apache-2.0)	Apache-2.0

Name	License Type
joda-time 2.1 (Apache-2.0)	Apache-2.0
jsonrpc-lib 0.1.7 (Apache-2.0)	Apache-2.0
jsr305 3.0.2 (Apache-2.0)	Apache-2.0
jstl 1.1.2 (Apache v2.0)	Apache-2.0
kahaDB 5.6.0 (Apache 2.0)	Apache-2.0
liquibase-core 2.0.5 (Apache v2.0)	Apache-2.0
listenablefuture 9999.0-empty-to-avoid-conflict-with-guava (Apache v2.0)	Apache-2.0
log4cplus 1.1.2 (Apache-2.0)	Apache-2.0
log4j 1.2.16 (Apache 2.0)	Apache-2.0
mapdb 1.0.8 (Apache-2.0)	Apache-2.0
mod_wsgi 4.6.4 (Apache-2.0)	Apache-2.0
multiverse-core 0.7.0 (Apache v2.0)	Apache-2.0
netty-all 4.1.24 (Apache-2.0)	Apache-2.0
netty-all 4.1.36 (Apache-2.0)	Apache-2.0
netty-all 4.1.49 (Apache-2.0)	Apache-2.0
objenesis 2.1 (Apache-2.0)	Apache-2.0
packaging 17.1 (Apache-2.0)	Apache-2.0
pbr 1.8.0 (Apache v2.0)	Apache-2.0
pyNaCl 1.3.0 (Apache-2.0)	Apache-2.0
pyOpenSSL 0.13.1 (Apache-2.0)	Apache-2.0
pyOpenSSL 16.2.0 (Apache-2.0)	Apache-2.0
pysaml2 4.6.2 (Apache-2.0)	Apache-2.0
python-dateutil 2.8.0 (Apache-2.0)	Apache-2.0
python-requests 2.6.0 (Apache-2.0)	Apache-2.0
quartz 1.6.1 (Apache v2.0)	Apache-2.0
requests 2.12.3 (Apache-2.0)	Apache-2.0
resources 1.1.6 (Apache v2.0)	Apache-2.0
rsa 3.4.2 (Apache-2.0)	Apache-2.0
rsyslog 5.8.10 (Apache-2.0)	Apache-2.0
s3transfer 0.2.1 (Apache-2.0)	Apache-2.0
shiro 1.1.4 (Apache v2.0)	Apache-2.0

Name	License Type
shiro-cas 1.2.0 (Apache 2.0)	Apache-2.0
shiro-core 1.2.0 (Apache 2.0)	Apache-2.0
shiro-ehcache 1.2.0 (Apache 2.0)	Apache-2.0
shiro-quartz 1.2.0 (Apache 2.0)	Apache-2.0
shiro-spring 1.2.0 (Apache 2.0)	Apache-2.0
shiro-web 1.2.1 (Apache 2.0)	Apache-2.0
spring-aop 3.0.6.RELEASE (Apache v2.0)	Apache-2.0
spring-aop 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-aop 4.3.11.RELEASE (Apache v2.0)	Apache-2.0
spring-aop 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-asm 3.0.6.RELEASE	Apache-2.0
spring-asm 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-aspects 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-beans 3.0.6.RELEASE (Apache v2.0)	Apache-2.0
spring-beans 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-beans 4.3.11.RELEASE (Apache v2.0)	Apache-2.0
spring-beans 4.3.18.RELEASE (Apache v2.0)	Apache-2.0
spring-beans 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-context 3.0.6.RELEASE (Apache v2.0)	Apache-2.0
spring-context 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-context 4.3.11.RELEASE (Apache v2.0)	Apache-2.0
spring-context 4.3.18.RELEASE (Apache v2.0)	Apache-2.0
spring-context 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-context-support 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-core 3.0.6.RELEASE (Apache v2.0)	Apache-2.0
spring-core 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-core 4.3.18.RELEASE (Apache v2.0)	Apache-2.0
spring-core 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-expression 3.0.6.RELEASE (Apache v2.0)	Apache-2.0
spring-expression 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-expression 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-jcl 5.1.6.RELEASE (Apache v2.0)	Apache-2.0

Name	License Type
spring-jdbc 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-jms 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-jms 4.3.18.RELEASE (Apache v2.0)	Apache-2.0
spring-jms 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-messaging 4.3.18.RELEASE (Apache v2.0)	Apache-2.0
spring-messaging 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-orm 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-test 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-tx 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-tx 4.3.18.RELEASE (Apache v2.0)	Apache-2.0
spring-tx 5.1.6.RELEASE (Apache v2.0)	Apache-2.0
spring-web 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
spring-webmvc 3.1.4.RELEASE (Apache 2.0)	Apache-2.0
stompest 2.3.0 (Apache-2.0)	Apache-2.0
teamcity 1.0.3 (Apache v2.0)	Apache-2.0
testng 6.8.21 (Apache-2.0)	Apache-2.0
usertype.joda-time 1.9 (Apache 2.0)	Apache-2.0
usertype.spi 1.9 (Apache 2.0)	Apache-2.0
validation-api 1.0.0 (Apache-2.0)	Apache-2.0
WALinuxAgent 2.2.32.2 (Apache-2.0)	Apache-2.0
WALinuxAgent 2.2.48.1 (Apache-2.0)	Apache-2.0
webxml 1.4.1 (Apache v2.0)	Apache-2.0
xbean-spring 4.16 (Apache-2.0)	Apache-2.0
xbean-spring 4.2 (Apache-2.0)	Apache-2.0
xerces-c 3.0.1 (Apache v2.0)	Apache-2.0
dejavu-fonts-common 2.33 (Bitstream Vera Fonts License)	Bitstream Vera Fonts License
dejavu-sans-fonts 2.33 (Bitstream Vera Fonts License)	Bitstream Vera Fonts License
asm 3.1 (BSD-3)	BSD or BSD-like
bzip2 1.0.5 (BSD)	BSD or BSD-like
bzip2-devel 1.0.6 (bzip2 License)	BSD or BSD-like
bzip2-libs 1.0.5 (bzip2 License)	BSD or BSD-like
click 6.7 (BSD)	BSD or BSD-like

Name	License Type
copy-jdk-configs 3.3 (BSD)	BSD or BSD-like
coreapi 2.3.3 (BSD)	BSD or BSD-like
coreschema 0.0.4 (BSD)	BSD or BSD-like
cronie 1.4.4 (BSD)	BSD or BSD-like
cronie-anacron 1.4.4 (BSD)	BSD or BSD-like
cyrus-sasl 2.1.23 (BSD)	BSD or BSD-like
cyrus-sasl 2.1.26 (BSD with advertising)	BSD or BSD-like
cyrus-sasl-gssapi 2.1.23 (BSD)	BSD or BSD-like
cyrus-sasl-lib 2.1.23 (BSD)	BSD or BSD-like
cyrus-sasl-plain 2.1.23 (BSD)	BSD or BSD-like
cyrus-sasl-plain 2.1.26 (BSD with advertising)	BSD or BSD-like
dash 0.5.5.1 (BSD)	BSD or BSD-like
decorator 4.0.11 (BSD)	BSD or BSD-like
deltarpm 3.5 (BSD)	BSD or BSD-like
django 1.11.20 (Apache v2.0)	BSD or BSD-like
Django 1.11.23 (BSD-3-Clause)	BSD or BSD-like
django 1.11.28 (BSD)	BSD or BSD-like
Django 1.11.29 (BSD-3-Clause)	BSD or BSD-like
django-filter 1.1.0 (BSD)	BSD or BSD-like
django-rest-swagger 2.2.0 (BSD)	BSD or BSD-like
django-rest-framework 3.6.3 (BSD)	BSD or BSD-like
django-rest-framework 3.7.7 (BSD)	BSD or BSD-like
drf-yasg 1.16.0 (BSD)	BSD or BSD-like
drf-yasg 1.17.0 (BSD)	BSD or BSD-like
enum34 1.1.6 (BSD)	BSD or BSD-like
file 5.04 (BSD)	BSD or BSD-like
file-libs 5.04 (BSD)	BSD or BSD-like
fipscheck 1.2.0 (BSD)	BSD or BSD-like
fipscheck-lib 1.2.0 (BSD)	BSD or BSD-like
flac 1.2.1 (BSD)	BSD or BSD-like
ftp 0.17 (BSD)	BSD or BSD-like
hamcrest-core 1.2.1 (BSD-3-Clause)	BSD or BSD-like

Name	License Type
hamcrest-core 1.3 (BSD-3-Clause)	BSD or BSD-like
hamcrest-date 1.1.0 (BSD-3-Clause)	BSD or BSD-like
hamcrest-integration 1.3 (BSD)	BSD or BSD-like
hdparm 9.43 (BSD)	BSD or BSD-like
hmaccalc 0.9.13 (BSD)	BSD or BSD-like
hsqldb 2.4.0 (BSD-3-Clause)	BSD or BSD-like
hsqldb 2.5.0 (BSD)	BSD or BSD-like
idna 2.2 (BSD)	BSD or BSD-like
iperf 2.0.13 (BSD)	BSD or BSD-like
iperf 2.0.5 (BSD)	BSD or BSD-like
ipmitool 1.8.15 (BSD)	BSD or BSD-like
itypes 1.1.0 (BSD)	BSD or BSD-like
jinja2 2.10.1 (BSD)	BSD or BSD-like
jinja2 2.6 (BSD)	BSD or BSD-like
jpackage-utils 1.7.5 (BSD)	BSD or BSD-like
JSR305 2.0.2 (BSD-3)	BSD or BSD-like
libcap 2.16 (BSD)	BSD or BSD-like
libedit 2.11 (BSD)	BSD or BSD-like
libevent 1.4.13 (BSD)	BSD or BSD-like
libffi 3.0.5 (BSD)	BSD or BSD-like
libjpeg-turbo 1.2.1 (BSD)	BSD or BSD-like
libogg 1.1.4 (BSD)	BSD or BSD-like
libpcap 1.4.0 (BSD)	BSD or BSD-like
libpqxx 4.0.1 (BSD)	BSD or BSD-like
libssh2 1.4.2 (BSD)	BSD or BSD-like
libuuid 2.17.2 (BSD)	BSD or BSD-like
libvorbis 1.2.3 (BSD)	BSD or BSD-like
lsof 4.82 (BSD)	BSD or BSD-like
lxml 3.7.3 (BSD)	BSD or BSD-like
M2Crypto 0.25.1 (BSD)	BSD or BSD-like
markupsafe 1.0 (BSD)	BSD or BSD-like
microcode 20180807a (Intel Binary Distribution License)	BSD or BSD-like

Name	License Type
nc 1.84 (BSD)	BSD or BSD-like
net-snmp 5.5 (BSD)	BSD or BSD-like
net-snmp-libs 5.5 (BSD)	BSD or BSD-like
net-snmp-utils 5.5 (BSD)	BSD or BSD-like
netaddr 0.7.19 (BSD)	BSD or BSD-like
olefile 0.44 (BSD)	BSD or BSD-like
openapi-codec 1.3.2 (BSD)	BSD or BSD-like
openjpeg-libs 1.3 (BSD)	BSD or BSD-like
openssh 7.4p1 (OpenSSH License)	BSD or BSD-like
p11-kit 0.18.5 (BSD)	BSD or BSD-like
p11-kit-trust 0.18.5 (BSD)	BSD or BSD-like
pam 1.1.1 (BSD)	BSD or BSD-like
passwd 0.77 (BSD)	BSD or BSD-like
pcre 7.8 (BSD)	BSD or BSD-like
pcsc-lite-libs 1.5.2 (BSD)	BSD or BSD-like
PostgreSQL JDBC Driver 9.2-1003-jdbc4 (BSD)	BSD or BSD-like
protobuf 3.1.0 (BSD)	BSD or BSD-like
protobuf-java 2.3.0 (BSD-3)	BSD or BSD-like
protobuf-java 2.4.1 (BSD-3)	BSD or BSD-like
protobuf-java 2.6.1 (BSD)	BSD or BSD-like
psutil 5.0.1 (BSD)	BSD or BSD-like
psutils 1.17 (BSD)	BSD or BSD-like
pyasn1 0.2.2 (BSD)	BSD or BSD-like
pycparser 2.17 (BSD)	BSD or BSD-like
pyrpm 0.3 (BSD)	BSD or BSD-like
python-deltarpm 3.5 (BSD)	BSD or BSD-like
python-lxml 2.2.3 (BSD)	BSD or BSD-like
python-psutils 3.1.1 (BSD)	BSD or BSD-like
python-reportlab 2.6 (BSD)	BSD or BSD-like
python-rfoo 1.3.0 (BSD)	BSD or BSD-like
python-unittest2 0.5.1 (BSD)	BSD or BSD-like
redhat-logos 60.0.14 (BSD)	BSD or BSD-like

Name	License Type
repoze.who 2.3 (BSD)	BSD or BSD-like
shadow-utils 4.1.5.1 (BSD)	BSD or BSD-like
sphinx 1.1.2 (BSD)	BSD or BSD-like
sqlparse 0.2.4 (BSD)	BSD or BSD-like
tcpdump 4.0.0 (BSD)	BSD or BSD-like
telnet 0.17 (BSD)	BSD or BSD-like
unzip 6.0 (BSD)	BSD or BSD-like
uritemplate 3.0.0 (BSD)	BSD or BSD-like
ustr 1.0.4 (BSD)	BSD or BSD-like
xpp3_min 1.1.4c (BSD)	BSD or BSD-like
xstream 1.4.10 (BSD)	BSD or BSD-like
zip 3.0 (BSD)	BSD or BSD-like
boost 1.41.0 (Boost)	BSL-1.0
boost 1.66.0 (BSL-1.0)	BSL-1.0
boost-regex 1.41.0 (Boost)	BSL-1.0
boost-thread 1.41.0 (Boost)	BSL-1.0
bzip2 1.0.6 (bzip2 License)	bzip2 License
jta 1.1 (CDDL-1.0)	CDDL-1.0
jaxb-core 2.2.11 (CDDL-1.1)	CDDL-1.1
jaxb-core 2.3.0 (CDDL v1.1)	CDDL-1.1
jaxb-impl 2.2.11 (CDDL-1.1)	CDDL-1.1
jaxb-impl 2.3.0 (CDDL v1.1)	CDDL-1.1
junit 4.11 (CPL 1.0)	CPL-1.0
jsr166y 1.7.0 (Public Domain)	Creative Commons CC0 1.0 Universal Public Domain Dedication
linux-firmware 20171215 (Redistributable, no modification permitted)	Custom License
dom4j 1.6.1 (DOM4J License)	dom4j License
aspectJrt 1.6.10 (EPL 1.0)	EPL-1.0
aspectJweaver 1.6.10 (EPL 1.0)	EPL-1.0
h2 1.3.164 (EPL 1.0)	EPL-1.0
hibernate-jpa-2.0-api 1.0.1 (EPL v1.0)	EPL-1.0
logback-classic 1.2.3 (EPL-1.0)	EPL-1.0

Name	License Type
logback-core 1.2.3 (EPL-1.0)	EPL-1.0
waffle-jna 1.6 (EPL-1.0)	EPL-1.0
waffle-shiro 1.6 (EPL-1.0)	EPL-1.0
freetype 2.3.11 (FTL)	FTL
monit 5.15 (AGPL-3)	GNU AGPL-3.0
monit 5.15.bcentos6 (AGPL)	GNU AGPL-3.0
acl 2.2.49 (GPL-2.0)	GPL-2.0
at 3.1.10 (GPL-2.0)	GPL-2.0
attr 2.4.44 (GPL v2.0+)	GPL-2.0
audit 2.4.5 (GPL-2.0+)	GPL-2.0
authconfig 6.2.8 (GPL-2.0+)	GPL-2.0
checkpolicy 2.0.22 (GPL v2.0)	GPL-2.0
chkconfig 1.3.49.5 (GPL-2.0)	GPL-2.0
ConsoleKit 0.4.1 (GPL-2.0+)	GPL-2.0
ConsoleKit-libs 0.4.1 (GPL-2.0)	GPL-2.0
cpuspeed 1.5 (GPL-2.0+)	GPL-2.0
createrepo 0.9.9 (GPL-2.0)	GPL-2.0
crontabs 1.10 (GPL v2.0)	GPL-2.0
cryptsetup-luks 1.2.0 (GPL v2.0)	GPL-2.0
cryptsetup-luks-libs 1.2.0 (GPL v2.0)	GPL-2.0
cryptsetup-reencrypt 1.6.4 (GPL-2.0)	GPL-2.0
dbus 1.2.24 (GPL-2.0+)	GPL-2.0
dbus-libs 1.2.24 (GPL-2.0+)	GPL-2.0
diffutils 2.8.1 (GPL v2.0+)	GPL-2.0
dmidecode 2.12 (GPL-2.0)	GPL-2.0
dracut 004 (GPL-2.0+)	GPL-2.0
dracut-fips 033 (GPL-2.0+)	GPL-2.0
dracut-fips-aesni 033 (GPL-2.0+)	GPL-2.0
dracut-kernel 004 (GPL-2.0+)	GPL-2.0
dstat 0.7.0 (GPL-2.0)	GPL-2.0
dstat 0.7.2 (GPL v2.0)	GPL-2.0
e2fsprogs 1.41.12 (GPL-2.0)	GPL-2.0

Name	License Type
e2fsprogs-libs 1.41.12 (GPL-2.0 w/exceptions)	GPL-2.0
ethtool 3.5 (GPL-2.0)	GPL-2.0
gdbm 1.8.0 (GPL-2.0+)	GPL-2.0
GeoIP 1.5.0 (GPL-2.0+)	GPL-2.0
geoipupdate 2.5.0 (GPL-2.0)	GPL-2.0
glibc-devel 2.17 (GPL-2.0+)	GPL-2.0
gmp-devel 6.0.0 (LGPLv3+)	GPL-2.0
groff 1.18.1.4 (GPL v2.0)	GPL-2.0
grub 0.97 (GPL-2.0+)	GPL-2.0
grubby 7.0.15 (GPL v2.0+)	GPL-2.0
gzip 1.3.12 (GPL v2.0)	GPL-2.0
hicolor-icon-theme 0.11 (GPL-2)	GPL-2.0
hicolor-icon-theme 0.12 (GPL-2)	GPL-2.0
htop 1.0.3 (GPL-2 w/PLPA)	GPL-2.0
hwdata 0.233 (GPL-2.0+)	GPL-2.0
iftop 1.0 (GPL-2.0+)	GPL-2.0
incron 0.5.9 (GPL-2.0)	GPL-2.0
initscripts 9.03.61 (GPL-2.0)	GPL-2.0
iotop 0.3.2 (GPL-2.0)	GPL-2.0
iproute2 3.19.0 (GPL-2.0)	GPL-2.0
iptables 1.4.7 (GPL-2.0)	GPL-2.0
iptables-ipv6 1.4.7 (GPL-2.0)	GPL-2.0
iputils 20071127 (GPL-2.0)	GPL-2.0
jbigkit-libs 2.0 (GPL v2.0+)	GPL-2.0
kbd 1.15 (GPL v2.0+)	GPL-2.0
kbd-misc 1.15 (GPL v2.0+)	GPL-2.0
kernel 4.9.165 (GPL-2.0)	GPL-2.0
kernel 4.9.215 (GPL-2.0)	GPL-2.0
kernel-headers 4.9.221 (GPL-2.0)	GPL-2.0
kmod-tg3 3.137s (GPL-2.0)	GPL-2.0
ksyms 3.137s.bcentos6 (GPL-2.0)	GPL-2.0
libnih 1.0.1 (GPL v2.0)	GPL-2.0

Name	License Type
lm_sensors-libs 3.1.1 (GPL v2.0+)	GPL-2.0
logrotate 3.7.8 (GPL-2)	GPL-2.0
lshw B.02.17 (GPL-2.0)	GPL-2.0
make 3.81 (GPL-2.0+)	GPL-2.0
MAKEDEV 3.24 (GPL v2.0)	GPL-2.0
mdadm 3.3.4 (GPL-2.0+)	GPL-2.0
microcode_ctl 1.17 (GPL-2.0)	GPL-2.0
mingetty 1.08 (GPL v2.0+)	GPL-2.0
module-init-tools 3.9 (GPL-2.0+)	GPL-2.0
net-tools 1.60 (GPL-2)	GPL-2.0
netpbm 10.47.05 (GPL v2.0)	GPL-2.0
netpbm-progs 10.47.05 (GPL v2.0+)	GPL-2.0
nmap-6.40-tw1.bcentos6r20170801005315 (Commercial Nmap License)	GPL-2.0
ntlmmaps 1.0.962.bcentos6 (GPL-2.0)	GPL-2.0
patch 2.6 (GPL v2.0+)	GPL-2.0
pciutils 3.1.10 (GPL v2.0+)	GPL-2.0
pciutils-libs 3.1.10 (GPL v2.0+)	GPL-2.0
pinentry 0.7.6 (GPL-2.0+)	GPL-2.0
pkgconfig 0.23 (GPL v2.0+)	GPL-2.0
plymouth 0.8.3 (GPL v2.0+)	GPL-2.0
plymouth-core-libs 0.8.3 (GPL v2.0+)	GPL-2.0
plymouth-scripts 0.8.3 (GPL v2.0+)	GPL-2.0
pm-utils 1.2.5 (GPL v2.0)	GPL-2.0
policycoreutils 2.0.83 (GPL-2.0+)	GPL-2.0
poppler 0.12.4 (GPL-2.0)	GPL-2.0
poppler-data 0.4.0 (GPL v2.0)	GPL-2.0
psmisc 22.6 (GPL v2.0+)	GPL-2.0
redhat-rpm-config 9.0.3 (GPL v2.0)	GPL-2.0
rng-tools 5 (GPL-2.0)	GPL-2.0
rpm 0.0.2 (GPL-2.0)	GPL-2.0
rpm 4.8.0 (GPL-2.0+)	GPL-2.0

Name	License Type
rpm-build 4.8.0 (GPL-2.0+)	GPL-2.0
rpm-python 4.8.0 (GPL-2.0+)	GPL-2.0
screen 4.0.3 (GPL-2.0+)	GPL-2.0
sed 4.2.1 (GPL v2.0+)	GPL-2.0
selinux-policy 3.7.19 (GPL-2.0+)	GPL-2.0
selinux-policy-targeted 3.7.19 (GPL-2.0+)	GPL-2.0
shared-mime-info 0.70 (GPL v2.0+)	GPL-2.0
sshpas 1.06 (GPL-2.0)	GPL-2.0
ssmtp 2.61 (GPL-2.0+)	GPL-2.0
sysstat 9.0.4 (GPL-2.0+)	GPL-2.0
sysvinit-tools 2.87 (GPL-2.0+)	GPL-2.0
texlive-texmf 2007 (GPL-2.0)	GPL-2.0
texlive-texmf-dvips 2007 (GPL-2.0)	GPL-2.0
texlive-texmf-errata 2007 (GPL v2.0)	GPL-2.0
texlive-texmf-errata-dvips 2007 (GPL v2.0)	GPL-2.0
texlive-texmf-errata-fonts 2007 (GPL v2.0)	GPL-2.0
texlive-texmf-errata-latex 2007 (GPL-2.0)	GPL-2.0
texlive-texmf-fonts 2007 (GPL-2.0)	GPL-2.0
tmpwatch 2.9.16 (GPL-2.0)	GPL-2.0
traceroute 2.0.14 (GPL v2.0+)	GPL-2.0
udev 147 (GPL-2.0)	GPL-2.0
upstart 0.6.5 (GPL-2.0)	GPL-2.0
urw-fonts 2.4 (GPL-2.0 w/exceptions)	GPL-2.0
util-linux-ng 2.17.2 (GPL-2.0)	GPL-2.0
yum 3.2.29 (GPL-2.0+)	GPL-2.0
yum-metadata-parser 1.1.2 (GPL v2.0)	GPL-2.0
yum-plugin-fastestmirror 1.1.30 (GPL-2.0+)	GPL-2.0
yum-utils 1.1.30 (GPL-2.0+)	GPL-2.0
java-1.7.0-openjdk 1.7.0.221 (GPL-v2 w/CE)	GPL-2.0 /w Classpath Exception
java-1.7.0-openjdk-devel 1.7.0.221 (GPLv2 w/CE)	GPL-2.0 /w Classpath Exception
java-1.8.0-openjdk 1.8.0.212.b04 (GPL-2.0 w/CE)	GPL-2.0 /w Classpath Exception
java-1.8.0-openjdk 1.8.0.252.b09 (GPLv2 w/CE)	GPL-2.0 /w Classpath Exception

Name	License Type
java-1.8.0-openjdk-headless 1.8.0.212.b04 (GPL-2.0 w/CE)	GPL-2.0 /w Classpath Exception
java-1.8.0-openjdk-headless 1.8.0.252 (GPL-2.0 w/CE)	GPL-2.0 /w Classpath Exception
mysql-libs 5.1.73 (GPLv2 with exceptions)	GPL-2.0 w/FOSS exception
bash 4.1.2 (GPL-3.0+)	GPL-3.0
bash 4.2.46 (GPL-3.0+)	GPL-3.0
binutils 2.20.51.0.2 (GPL-3.0+)	GPL-3.0
coreutils 8.4 (GPL-3.0)	GPL-3.0
coreutils-libs 8.4 (GPL-3.0)	GPL-3.0
cpio 2.10 (GPL v3.0+)	GPL-3.0
dosfstools 3.0.20 (GPL-3.0+)	GPL-3.0
dosfstools 3.0.9 (GPL v3.0+)	GPL-3.0
e1000e 3.4.0.2 (GPL-3)	GPL-3.0
findutils 4.4.2 (GPL-3.0+)	GPL-3.0
gawk 3.1.7 (GPL-3.0+)	GPL-3.0
gettext 0.19.8.1 (GPL-3.0+)	GPL-3.0
gettext-libs 0.19.8.1 (GPL-3.0)	GPL-3.0
ghostscript 8.70 (GPL-3.0+ and Redistributable, no modification permitted)	GPL-3.0
gnupg2 2.0.14 (GPL v3.0+)	GPL-3.0
grep 2.20 (GPL-3.0+)	GPL-3.0
info 4.13a (GPL v3.0+)	GPL-3.0
lbzip2 2.5 (GPL-3.0+)	GPL-3.0
less 436 (GPL v3.0)	GPL-3.0
libstdc++ 4.4.7 (LGPL-3)	GPL-3.0
m4 1.4.13 (GPL v3.0+)	GPL-3.0
ntlmmaps 1.0.962 (GPL-2.0)	GPL-3.0
parted 2.1 (GPL-3.0+)	GPL-3.0
readline 6.0 (GPL v3.0+)	GPL-3.0
rpmrebuild 2.11 (GPL-2.0+)	GPL-3.0
rsync 3.0.6 (GPL v3.0+)	GPL-3.0
rsyslog-gnutls 5.8.10 (GPL-3)	GPL-3.0
samba 4.7.5 (GPL v3.0)	GPL-3.0

Name	License Type
sgml-common 0.6.3 (GPL-3)	GPL-3.0
tar 1.23 (GPL-3.0+)	GPL-3.0
tex-preview 11.85 (GPL v3.0+)	GPL-3.0
which 2.19 (GPL v3.0)	GPL-3.0
libgcc 4.4.7 (LGPL-2.1)	GPL-3.0-with-GCC-exception
icu4c 57.1.0 (ICU License)	ICU
libicu 4.2.1 (ICU License)	ICU
postfix 2.6.6 (IBM)	IPL-1.0
bind-libs 9.8.2 (ISC License (ISC))	ISC
bind-utils 9.8.2 (ISC License (ISC))	ISC
dhclient 4.1.1 (ISC License (ISC))	ISC
dhclient 4.2.5 (ISC License (ISC))	ISC
dhcp-common 4.1.1 (ISC License (ISC))	ISC
dhcp-common 4.2.5 (ISC License (ISC))	ISC
dhcp-libs 4.2.5 (ISC License (ISC))	ISC
rimraf 2.7.1 (ISC License)	ISC
semver 5.7.1 (ISC License (ISC))	ISC
sudo 1.8.6p3 (ISC License (ISC))	ISC
tmux 1.6 (ISC License (ISC))	ISC
jasper-libs 1.900.1 (JasPer)	JasPer-2.0
alsa-lib 1.1.0 (LGPL-2.0+)	LGPL-2.0
atk 1.30.0 (LGPL v2.0)	LGPL-2.0
atk 2.28.1 (LGPL-2.0+)	LGPL-2.0
audit-libs 2.4.5 (LGPL-2.0+)	LGPL-2.0
augeas 1.0.0 (LGPL-2.0+)	LGPL-2.0
augeas-libs 1.0.0 (LGPL-2.0)	LGPL-2.0
avahi-libs 0.6.25 (LGPL-2.0)	LGPL-2.0
cups-libs 1.4.2 (LGPL-2.0)	LGPL-2.0
device-mapper-libs 1.02.117 (LGPL-2.0)	LGPL-2.0
eggdbus 0.6 (LGPL v2.0)	LGPL-2.0
fribidi 1.0.2 (LGPL-2.0)	LGPL-2.0
gamin 0.1.10 (LGPL v2.0)	LGPL-2.0

Name	License Type
GConf2 2.28.0 (LGPL-2.0+)	LGPL-2.0
gdb 7.6.1 (LGPL-2.0)	LGPL-2.0
gdb 7.6.bcentos6 (LGPL-2.0)	LGPL-2.0
gdk-pixbuf2 2.24.1 (LGPL-2.0)	LGPL-2.0
gdk-pixbuf2 2.36.12 (LGPL-2.0+)	LGPL-2.0
gettext 0.17 (LGPL v2.0+)	LGPL-2.0
ggdb-gdbserver 7.6.bcentos6 (LGPL-2.0)	LGPL-2.0
glib2 2.28.8 (LGPL-2.0+)	LGPL-2.0
glibc 2.12 (LGPL-2.0)	LGPL-2.0
glibc-common 2.12 (LGPL-2)	LGPL-2.0
glibc-headers 2.17 (LGPL-2.0)	LGPL-2.0
gnutls 2.12.23 (LGPL-2.0)	LGPL-2.0
gpgme 1.1.8 (LGPL v2.0+)	LGPL-2.0
gtk-update-icon-cache 3.22.30 (LGPL-2.0+)	LGPL-2.0
gtk2 2.24.23 (LGPL-2.0+)	LGPL-2.0
gtk2 2.24.31 (LGPL-2.0+)	LGPL-2.0
keyutils-libs 1.4 (LGPL v2.0+)	LGPL-2.0
libacl 2.2.49 (LGPL v2.0+)	LGPL-2.0
libasyncns 0.8 (LGPL v2.0+)	LGPL-2.0
libattr 2.4.44 (LGPL v2.0+)	LGPL-2.0
libblkid 2.17.2 (LGPL-2.0+)	LGPL-2.0
libcap-ng 0.6.4 (LGPL v2.0+)	LGPL-2.0
libcrypt 1.4.5 (LGPL-2.0+)	LGPL-2.0
libgpg-error 1.7 (LGPL v2.0+)	LGPL-2.0
libIDL 0.8.13 (LGPL v2.0+)	LGPL-2.0
libidn 1.18 (LGPL v2.0)	LGPL-2.0
libnl 1.1.4 (LGPL v2.0)	LGPL-2.0
libnl3 3.2.21 (LGPL-2.0)	LGPL-2.0
libsemanage 2.0.43 (LGPL-2.0+)	LGPL-2.0
libsepol 2.0.41 (LGPL v2.0+)	LGPL-2.0
libsndfile 1.0.20 (LGPL v2.1)	LGPL-2.0
libtasn1 2.3 (LGPL v2.0+)	LGPL-2.0

Name	License Type
libthai 0.1.12 (LGPL v2.0+)	LGPL-2.0
libtool-ltdl 2.2.6 (LGPL v2.0+)	LGPL-2.0
libudev 147 (LGPL-2.0+)	LGPL-2.0
libusb 0.1.12 (LGPL v2.0+)	LGPL-2.0
libuser 0.56.13 (LGPL-2.0+)	LGPL-2.0
libutempter 1.1.5 (LGPL v2.0)	LGPL-2.0
OpenIPMI 2.0.16 (LGPL v2.0+)	LGPL-2.0
OpenIPMI-libs 2.0.16 (LGPL v2.0+)	LGPL-2.0
ORBit2 2.14.17 (GPL-2.0)	LGPL-2.0
pango 1.28.1 (LGPL-2.0+)	LGPL-2.0
polkit 0.96 (LGPL-2.0+)	LGPL-2.0
procps 3.2.8 (LGPL-2.0+)	LGPL-2.0
pth 2.0.7 (LGPL v2.0+)	LGPL-2.0
pulseaudio-libs 0.9.21 (LGPL-2.0+)	LGPL-2.0
pygpgme 0.1 (LGPL v2.0+)	LGPL-2.0
python-augeas 0.4.1 (LGPL-2.0+)	LGPL-2.0
python-chardet 2.2.1 (LGPL-2.0)	LGPL-2.0
python-paramiko 1.7.5 (LGPL v2.0+)	LGPL-2.0
python-urlgrabber 3.9.1 (LGPL-2.0+)	LGPL-2.0
ttmkfdir 3.0.9 (LGPL v2.0+)	LGPL-2.0
xz 4.999.9 (LGPL v2.0+)	LGPL-2.0
xz-libs 4.999.9 (LGPL v2.0+)	LGPL-2.0
xz-lzma-compat 4.999.9 (LGPL v2.0+)	LGPL-2.0
cracklib 2.8.16 (LGPL v2.1+)	LGPL-2.1
cracklib-dicts 2.8.16 (LGPL v2.1+)	LGPL-2.1
cryptsetup-reencrypt-libs 1.6.4 (LGPL-2.1)	LGPL-2.1
cvs 1.11.23 (LGPL-2)	LGPL-2.1
device-mapper 1.02.117 (GPL-2.0)	LGPL-2.1
graphite2 1.3.10 (LGPLv2)	LGPL-2.1
hibernate-commons-annotations 3.2.0.Final (LGPL v2.1)	LGPL-2.1
hibernate-core 3.6.10 (LGPL v2.1)	LGPL-2.1
hibernate-ehcache 3.6.10 (LGPL v2.1)	LGPL-2.1

Name	License Type
jna 3.5.0 (LGPL v2.1)	LGPL-2.1
lksctp-tools 1.0.10 (LGPL v2.1)	LGPL-2.1
paramiko 2.4.2 (LGPL-2.1)	LGPL-2.1
platform 3.5.0 (LGPL 2.1)	LGPL-2.1
rpm-libs 4.8.0 (LGPL-2.1)	LGPL-2.1
vmware-tools-core 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-esx-nox 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-foundation 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-guestlib 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-libraries-nox 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-autoUpgrade 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-deployPkg 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-grabbitmqProxy 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-guestInfo 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-hgfsServer 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-powerOps 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-timeSync 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-vix 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-plugins-vmbackup 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
vmware-tools-services 9.4.5 (Copyright (c) 2007-2014 VMware, Inc. All rights reserved.)	LGPL-2.1
elfutils 0.164 (LGPL-3)	LGPL-3.0
elfutils-libelf 0.164 (LGPLv3)	LGPL-3.0
elfutils-libs 0.164 (LGPLv3)	LGPL-3.0
gmp 4.3.1 (LGPLv3+)	LGPL-3.0
kpathsea 2007 (LGPL-3.0)	LGPL-3.0
libgomp 4.4.7 (LGPL-3.0)	LGPL-3.0

Name	License Type
psycopg2 2.6.2 (LGPL-3.0)	LGPL-3.0
python-psycopg2 2.5.3 (LGPL v3.0 w/exceptions)	LGPL-3.0
texlive 2007 (LGPL-3.0)	LGPL-3.0
texlive-dvips 2007 (LGPL-3.0)	LGPL-3.0
texlive-latex 2007 (LGPL-3.0)	LGPL-3.0
texlive-texmf-latex 2007 (LGPL-3.0)	LGPL-3.0
texlive-utils 2007 (LGPL-3.0)	LGPL-3.0
utils 0.9.0 (LGPL-3.0)	LGPL-3.0
libpng 1.2.49 (libpng License)	Libpng
libtiff 3.9.4 (libtiff)	libtiff
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-- activemq-web

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Initial authors:

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2001-12-12

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```
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```

From strings/apr_strnatcmp.c, include/apr_strings.h:

```
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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```

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```
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From strings/apr_strnatcmp.c, include/apr_strings.h:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making

changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply

such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is

called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy. For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Developers that use the GNU GPL protect your rights with two steps:

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of

works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section

7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your

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Theodore Ts'o
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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```
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```

```
, 1 April 1989
Ty Coon, President of Vice
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Theodore Ts'o
23-June-2007

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code

from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards

changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,

we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices

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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

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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.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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```
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```

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```
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```

, 1 April 1989
Ty Coon, President of Vice

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```
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```

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```

```
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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by

limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a

derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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- For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Iperf performance test

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

, 1 April 1989
Ty Coon, President of Vice
```

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<http://github.com/cbeust/jcommander>

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The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

Oracle

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

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

Oracle OpenJDK

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

- * java.sun.security.ssl

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

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

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

* `javax.servlet:javax.servlet-api`

* `javax.annotation:javax.annotation-api`

* `javax.transaction:javax.transaction-api`

* `javax.websocket:javax.websocket-api`

Oracle OpenJDK

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

* java.sun.security.ssl

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

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

OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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<https://github.com/jmespath/jmespath.py>

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
```

```
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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(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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the

right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less

in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge

for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit

developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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Version 2, June 1991

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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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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derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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```
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```
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```

```
, 1 April 1989
Ty Coon, President of Vice
```

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```
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```

```
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```

```
https://directory.fsf.org/wiki?title=Netaddr&oldid=4347
```

```
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

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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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*
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*
* @author Vincent Rijmen
* @author Antoon Bosselaers
* @author Paulo Barreto
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```
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```

```
, 1 April 1989
Ty Coon, President of Vice
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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Written by: Philip Hazel

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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 =====

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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```

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