



LICENSING BIBLE

Project: **gemip/mipcommonapi**

Branch: **mainline** (6fea2820f96cd55b7e3614ab93b48d37fc365ff4)

Created on **2025-11-19 17:30 UTC**

Bill of components

Libraries (java)

 it.csi.gemip:mipcommonapi 1.0.0-SNAPSHOT (root)

mitigated - Libreria di prodotto

(registry)

 com.aayushatharva.brotli4j:brotli4j 1.16.0 (compile) (transitive)

Apache-2.0

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 com.aayushatharva.brotli4j:native-linux-x86_64 1.16.0 (compile) (transitive)

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 com.aayushatharva.brotli4j:service 1.16.0 (compile) (transitive)

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 com.cronutils:cron-utils 9.2.1 (compile) (transitive)

Apache-2.0

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 com.fasterxml.jackson.core:jackson-annotations 2.17.2 (compile) (transitive)

Apache-2.0

(registry)

 com.fasterxml.jackson.core:jackson-core 2.17.2 (compile) (transitive)

Apache-2.0

Copyright (c) 2007 Tatu Saloranta, tatu.salarantaiki.fi/package tools.jackson.core;

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 com.fasterxml.jackson.core:jackson-databind 2.17.2 (compile) (transitive)

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 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml 2.17.2 (compile) (transitive)

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 com.fasterxml.jackson.datatype:jackson-datatype-jdk8 2.17.2 (compile) (transitive)

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✓ com.fasterxml.jackson.datatype:jackson-datatype-jsr310 2.17.2 (compile) (transitive)
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✓ com.fasterxml.jackson.jakarta.rs:jackson-jakarta-rs-base 2.17.2 (compile) (transitive)
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✓ com.fasterxml.jackson.jakarta.rs:jackson-jakarta-rs-json-provider 2.17.2 (compile) (transitive)
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✓ com.fasterxml.jackson.module:jackson-module-jakarta-xmlbind-annotations 2.17.2 (compile)
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✓ com.fasterxml.jackson.module:jackson-module-parameter-names 2.17.2 (compile) (transitive)
Apache-2.0
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✓ com.fasterxml:classmate 1.6.0 (compile) (transitive)
Apache-2.0
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✓ com.github.ben-manes.caffeine:caffeine 3.1.5 (compile) (transitive)
Apache-2.0

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✓ com.github.java-json-tools:btf 1.3 (compile) (transitive)
Apache-2.0
LGPL-3.0-only

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✓ com.github.java-json-tools:jackson-coreutils 2.0 (compile) (transitive)
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✓ com.github.java-json-tools:json-patch 1.13 (compile) (transitive)
Apache-2.0
LGPL-3.0-only

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 com.github.java-json-tools:msg-simple 1.2 (compile) (transitive)

Apache-2.0

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 com.github.librepdf:openpdf 2.0.5 (compile)

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MPL-2.0

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 com.github.virtuald:curvesapi 1.06 (compile) (transitive)

BSD

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 com.google.errorprone:error_prone_annotations 2.24.0 (compile) (transitive)

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 com.ibm.async:asyncutil 0.1.0 (compile) (transitive)

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 com.sun.istack:istack-commons-runtime 4.1.2 (compile) (transitive)

BSD-3-Clause

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 com.sun.istack:istack-commons-tools 4.1.2 (compile) (transitive)

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 com.sun.xml.bind.external:relaxng-datatype 4.0.3 (compile) (transitive)

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 com.sun.xml.bind.external:rngom 4.0.3 (compile) (transitive)

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 com.zaxxer:SparseBitSet 1.2 (compile) (transitive)

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 commons-beanutils:commons-beanutils 1.9.4 (compile) (transitive)

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 commons-codec:commons-codec 1.16.1 (compile) (transitive)
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 commons-digester:commons-digester 2.1 (compile) (transitive)
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 commons-io:commons-io 2.15.0 (compile)
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 commons-logging:commons-logging 1.2 (compile) (transitive)
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 commons-validator:commons-validator 1.7 (compile) (transitive)
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 io.agroal:agroal-api 2.4 (compile) (transitive)
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 io.agroal:agroal-narayana 2.4 (compile) (transitive)
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 io.agroal:agroal-pool 2.4 (compile) (transitive)
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 io.github.crac:org-crac 0.1.3 (compile) (transitive)
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 io.micrometer:micrometer-commons 1.12.2 (compile) (transitive)
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 io.micrometer:micrometer-core 1.12.2 (compile) (transitive)
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 io.micrometer:micrometer-observation 1.12.2 (compile) (transitive)
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 io.micrometer:micrometer-registry-prometheus 1.12.2 (compile) (transitive)
Apache-2.0

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 io.netty:netty-buffer 4.1.108.Final (compile) (transitive)
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 io.netty:netty-codec 4.1.108.Final (compile) (transitive)
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 io.netty:netty-codec-dns 4.1.108.Final (compile) (transitive)
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 io.netty:netty-codec-haproxy 4.1.108.Final (compile) (transitive)
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 io.netty:netty-codec-http 4.1.108.Final (compile) (transitive)
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 io.netty:netty-codec-http2 4.1.108.Final (compile) (transitive)
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 io.netty:netty-codec-socks 4.1.108.Final (compile) (transitive)
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 io.netty:netty-common 4.1.108.Final (compile) (transitive)
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 io.netty:netty-handler 4.1.108.Final (compile) (transitive)
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✓ io.netty:netty-handler-proxy 4.1.108.Final (compile) (transitive)
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✓ io.netty:netty-resolver 4.1.108.Final (compile) (transitive)
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✓ io.netty:netty-resolver-dns 4.1.108.Final (compile) (transitive)
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✓ io.netty:netty-transport 4.1.108.Final (compile) (transitive)
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✓ io.netty:netty-transport-native-unix-common 4.1.108.Final (compile) (transitive)
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✓ io.opentelemetry.instrumentation:opentelemetry-instrumentation-api 1.32.0 (compile) (transitive)
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✓ io.opentelemetry:opentelemetry-api 1.32.0 (compile) (transitive)
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✓ io.opentelemetry:opentelemetry-context 1.32.0 (compile) (transitive)
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✓ io.opentelemetry:opentelemetry-extension-incubator 1.32.0-alpha (runtime) (transitive)
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✓ io.prometheus:simpleclient 0.16.0 (compile) (transitive)
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✓ io.prometheus:simpleclient_common 0.16.0 (compile) (transitive)
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✓ io.prometheus:simpleclient_tracer_common 0.16.0 (compile) (transitive)
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✓ io.prometheus:simpleclient_tracer_otel 0.16.0 (compile) (transitive)
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✓ io.prometheus:simpleclient_tracer_otel_agent 0.16.0 (compile) (transitive)
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✓ io.quarkus.arc:arc 3.8.6 (compile) (transitive)
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✓ io.quarkus.http:quarkus-http-core 5.2.4 (compile) (transitive)
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✓ io.quarkus.http:quarkus-http-http-core 5.2.4 (compile) (transitive)
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✓ io.quarkus.http:quarkus-http-servlet 5.2.4 (compile) (transitive)
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✓ io.quarkus.http:quarkus-http-vertx-backend 5.2.4 (compile) (transitive)
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✓ io.quarkus.QUOTE:QUOTE-core 3.8.6 (compile) (transitive)
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✓ io.quarkus.security:quarkus-security 2.0.3.Final (compile) (transitive)
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✓ io.quarkus:quarkus-agroal 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-arc 3.8.6 (compile)
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✓ io.quarkus:quarkus-bootstrap-runner 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-cache 3.8.6 (compile)
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✓ io.quarkus:quarkus-cache-runtime-spi 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-caffeine 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-core 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-credentials 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-datasource 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-datasource-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-development-mode-spi 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-elytron-security 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-elytron-security-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-elytron-security-properties-file 3.8.6 (compile)
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✓ io.quarkus:quarkus-fs-util 0.0.10 (compile) (transitive)
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✓ io.quarkus:quarkus-hibernate-orm 3.8.6 (compile)
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✓ io.quarkus:quarkus-hibernate-orm-panache 3.8.6 (compile)
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✓ io.quarkus:quarkus-hibernate-orm-panache-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-hibernate-validator 3.8.6 (compile)
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✓ io.quarkus:quarkus-ide-launcher 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-jackson 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-jdbc-postgresql 3.8.6 (compile)
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✓ io.quarkus:quarkus-jsonp 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-mailer 3.4.2 (compile)
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✓ io.quarkus:quarkus-micrometer 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-micrometer-registry-prometheus 3.8.6 (compile)
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✓ io.quarkus:quarkus-mutiny 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-narayana-jta 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-netty 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-panache-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-panache-hibernate-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-qute 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-resteasy 3.8.6 (compile)
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✓ io.quarkus:quarkus-resteasy-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-resteasy-jackson 3.8.6 (compile)
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✓ io.quarkus:quarkus-resteasy-multipart 3.8.6 (compile)
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✓ io.quarkus:quarkus-resteasy-server-common 3.8.6 (compile) (transitive)
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✓ io.quarkus:quarkus-scheduler 3.8.6 (compile)
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✓ io.quarkus:quarkus-scheduler-api 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-scheduler-common 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-scheduler-kotlin 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-scheduler-spi 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-security 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-security-runtime-spi 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-smallrye-context-propagation 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-smallrye-health 3.8.6 (compile)

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✓ io.quarkus:quarkus-smallrye-openapi 3.8.6 (compile)

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✓ io.quarkus:quarkus-swagger-ui 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-transaction-annotations 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-undertow 3.8.6 (compile)

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✓ io.quarkus:quarkus-vertx 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-vertx-http 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-vertx-latebound-mdc-provider 3.8.6 (compile) (transitive)

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✓ io.quarkus:quarkus-virtual-threads 3.8.6 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-annotation 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-classloader 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-constraint 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-cpu 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-expression 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-function 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-io 2.2.0 (compile) (transitive)

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✓ io.smallrye.common:smallrye-common-net 2.2.0 (compile) (transitive)

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 io.smallrye.common:smallrye-common-os 2.2.0 (compile) (transitive)

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 io.smallrye.common:smallrye-common-ref 2.2.0 (compile) (transitive)

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 io.smallrye.common:smallrye-common-vertx-context 2.2.0 (compile) (transitive)

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 io.smallrye.config:smallrye-config 3.5.4 (compile) (transitive)

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 io.smallrye.config:smallrye-config-common 3.5.4 (compile) (transitive)

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 io.smallrye.config:smallrye-config-core 3.5.4 (compile) (transitive)

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 io.smallrye.config:smallrye-config-validator 3.5.4 (compile) (transitive)

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 io.smallrye.reactive:mutiny 2.5.8 (compile) (transitive)

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 io.smallrye.reactive:mutiny-smallrye-context-propagation 2.5.8 (compile) (transitive)

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 io.smallrye.reactive:mutiny-zero-flow-adapters 1.0.0 (compile) (transitive)

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 io.smallrye.reactive:smallrye-mutiny-vertx-auth-common 3.11.0 (compile) (transitive)

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 io.smallrye.reactive:smallrye-mutiny-vertx-bridge-common 3.11.0 (compile) (transitive)

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✓ io.smallrye.reactive:smallrye-mutiny-vertx-core 3.11.0 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-mutiny-vertx-mail-client 3.11.0 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-mutiny-vertx-runtime 3.11.0 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-mutiny-vertx-uri-template 3.11.0 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-mutiny-vertx-web 3.11.0 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-mutiny-vertx-web-common 3.11.0 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-reactive-converter-api 3.0.1 (compile) (transitive)
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✓ io.smallrye.reactive:smallrye-reactive-converter-mutiny 3.0.1 (compile) (transitive)
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✓ io.smallrye.reactive:vertx-mutiny-generator 3.11.0 (compile) (transitive)
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✓ io.smallrye:jandex 3.1.6 (compile) (transitive)
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✓ io.smallrye:smallrye-context-propagation 2.1.2 (compile) (transitive)
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✓ io.smallrye:smallrye-context-propagation-api 2.1.2 (compile) (transitive)
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 io.smallrye:smallrye-context-propagation-jta 2.1.2 (compile) (transitive)

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 io.smallrye:smallrye-context-propagation-storage 2.1.2 (compile) (transitive)

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 io.smallrye:smallrye-fault-tolerance-vertx 6.2.6 (compile) (transitive)

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 io.smallrye:smallrye-health 4.1.0 (compile) (transitive)

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 io.smallrye:smallrye-health-api 4.1.0 (compile) (transitive)

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 io.smallrye:smallrye-health-provided-checks 4.1.0 (compile) (transitive)

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 io.smallrye:smallrye-open-api-core 3.10.0 (compile) (transitive)

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 io.vertx:vertx-auth-common 4.5.7 (compile) (transitive)

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 io.vertx:vertx-bridge-common 4.5.7 (compile) (transitive)

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 io.vertx:vertx-codegen 4.5.7 (compile) (transitive)

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 io.vertx:vertx-core 4.5.7 (compile) (transitive)

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 io.vertx:vertx-mail-client 4.5.7 (compile) (transitive)

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 io.vertx:vertx-uri-template 4.5.7 (compile) (transitive)

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 io.vertx:vertx-web 4.5.7 (compile) (transitive)

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 io.vertx:vertx-web-common 4.5.7 (compile) (transitive)

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 jakarta.activation:jakarta.activation-api 2.1.2 (compile) (transitive)

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 jakarta.annotation:jakarta.annotation-api 2.1.1 (compile) (transitive)

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 jakarta.authentication:jakarta.authentication-api 3.0.0 (compile) (transitive)

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 org.apache.poi:poi-ooxml 5.2.0 (compile)

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It is possible for a product to be distributed under a BSD-style license and for some other license to apply as well. This was, in fact, the case with very early versions of BSD UNIX, which included both new code written at UCB and code from the original versions of UNIX written at Bell Labs.

BSD-style licenses have been very successful, and they are now widely used for a variety of software. Among the many products released under this class of licenses are all of the major modern descendants of the original BSD UNIX, i.e., FreeBSD, OpenBSD, NetBSD and Darwin (the foundation of the Mac OS X). BSD-licensed software is also commonly included in Linux <> distributions <> (i.e., versions) and has even been incorporated into some of the Microsoft Windows operating systems.

BSD Licenses Versus the GPL

The GPL <> (GNU <> General Public License) is by far the most widely used license for free software <> (i.e., software whose source code is available at no cost for anyone to use for any purpose). The Linux kernel <> (i.e., the core of the operating system) as well as much of the other software generally included in Linux distributions have been released under the terms of the GPL.

Although far fewer programs are released under BSD-style licenses, this class of licenses is disproportionately important because of the widespread use of BSD-licensed code in both free and proprietary operating systems.

Possibly the biggest difference between the GPL and BSD licenses is the fact that the former is a copyleft license and the latter is not. Copyleft is the application of copyright law to permit the free creation of derivative works but requiring that such works be redistributable under the same terms (i.e.,

the same license) as the original work.

Closely related to this is the fact that, in sharp contrast to the GPL, BSD-style licenses do not require that derivative works based on BSD-licensed software make the source code for such derivative works freely available. This allows the direct incorporation of code from open source projects (i.e., from BSD-licensed software) into closed source projects. The GPL, however, specifically states: "This General Public License does not permit incorporating your program into proprietary programs."

A third difference is that the GPL is a single, copyrighted (by the Free Software Foundation, Inc.) license with no variants. BSD-style licenses, in contrast, are commonly modified for the specific situation.

In many cases, the use of open source code can allow companies to develop products more quickly and with less expense than if they wrote them with entirely original code. The fact that derivative products of BSD-licensed software are not required to be open source can be very useful for developers who want to create commercial products from open source code but who want to keep their modifications and/or extensions secret. Interestingly, companies that initially develop closed source products based on BSD-licensed code tend to be more likely to eventually make their source code publicly available than are companies that develop products that do not incorporate code code.

The issue of which license provides greater freedom and does the most to promote the development of improved software is highly controversial. In spite of the seeming simplicity of the licenses, there are no simple answers.

One of the most controversial properties of the GPL is its viral nature. This means that once some useful modification or addition to a GPL licensed program has been released, the source code of the modified or extended program must likewise be made freely available. That is, the GPL is a mechanism that deprives developers of the freedom to make their source code secret at some future date, although the developer can still use such code in commercial products. Critics of the GPL claim that this diminishes or destroys the commercial value of software because others can produce products that incorporate the same code.

GPL advocates claim that although the GPL is contagious in theory, it is not necessarily so in practice. Rather, they assert, it merely places restrictions on the code's re-use, as do BSD-style licenses.

One thing about both the GPL and the BSD-style licenses for which there is widespread agreement is that both have problems. Neither is perfect, and perhaps no license can be perfect. There is also considerable agreement that there are benefits both to software developers and to society as a whole from the choice provided by the existence of a variety of types of free software licenses, including the GPL and BSD-style licenses.

The "Advertising Clause"

The original version of the BSD license contained the so called advertising clause, which stated that all advertising materials that mention features of or use of the software must display the acknowledgment: "This product includes software developed by the University of California, Berkeley and its contributors."

One of the problems with this clause arose from the fact that people who made changes to the source code often wanted to have their names added to the acknowledgment. This could easily result in large and cumbersome acknowledgments for products with numerous contributors and for software distributions consisting of multiple individual projects.

A second problem was legal incompatibility with the terms of the GPL. This is because the GPL prohibits the addition of restrictions beyond those that it already imposes. Thus it was necessary to segregate GPL and BSD-licensed software within projects.

Initially, the "obnoxious BSD advertising clause," as it was referred to by GPL advocates, was used only for the BSD UNIX license. That did not cause any major problems because it was only necessary to include a single sentence of acknowledgment in any advertisement.

However, the fact that other software developers did not copy the clause verbatim, but replaced the phrase "University of California" with the name of their own organization or persons involved in it, resulted in a proliferation of slightly different licenses and a consequently serious problem when many

such programs were assembled to form a larger work or an operating system. For example, if an operating system or other program required fifty slightly different acknowledgment sentences, each naming a different developer or group of developers, such advertising alone might require a full page. Not only would this be very tedious reading, but it could also be costly.

In June 1999, after two years of discussion, the Office of Technology Licensing at UCB finally proclaimed: "Effective immediately, licensees and distributors are no longer required to include the acknowledgment within advertising materials. Accordingly, the foregoing paragraph of those BSD Unix files containing it is hereby deleted in its entirety."

This was clearly very useful. However, it could not eliminate the legacy of the advertising clause, as similar clauses still exist in the licenses of many programs that followed the old BSD license; only the developers of such packages can change them.

Examples of BSD-Style Licenses

Below are three examples of BSD-style licenses: (1) the BSD license as it is used by the FreeBSD operating system, (2) a BSD license as it is used by Sudo (a free utility program for Unix-like <> operating systems) and (3) a template of a BSD-style license that can be applied to any appropriate project:

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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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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

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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.

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