## Lumada Data Catalog Version 4.1

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| TXW2 Runtime   | 2.3.2              | Eclipse Distribution License - v<br>1.0         | DYNAMICALLY_LINKED   |
| Janino   | 2.7.8              | Janino License                                  | DYNAMICALLY_LINKED   |
| HttpClient Wrappers  | 4.5.5              | NetCDF license                                  | DYNAMICALLY_LINKED   |
| Common Annotations 1.2 API                                     | 1.0.0.Final        | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED   |
| Apache Spark   | 1.2.0              | Apache License 2.0                              | SOURCE_CODE          |
| JAXB CORE  | 2.3.0-b170127.1453 | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED   |
| chill-java   | 0.8.0              | Apache License 2.0                              | DYNAMICALLY_LINKED   |
| XMLBeans   | 3.1.0              | Apache License 2.0                              | DYNAMICALLY_LINKED   |
| JCommander Library   | 1.35               | Apache License 2.0                              | DYNAMICALLY_LINKED   |
| Java Native Access (JNA)                                       | 5.5.0              | GNU Lesser General Public<br>License v2.1 only  | DYNAMICALLY_LINKED   |
| Curator Recipes  | 2.4.0              | Apache License 2.0                              | DYNAMICALLY_LINKED   |
| Itadaki jbzip2   | 0.9.1              | MIT License                                     | DYNAMICALLY_LINKED   |
| JBoss Logging 3  | 3.2.1.Final        | Apache License 2.0                              | DYNAMICALLY_LINKED   |
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| pathman  | 0.0.27             | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED   |
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| appengine-endpoints-deps                    | 1.9.0                 | Google App Engine Terms of<br>Service License   | DYNAMICALLY_LINKED |
| Wavefront Java Integrations<br>Core Library | 3.22                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| t-digest                                    | 3.2                   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| sketches-library                            | 0.6.2                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Curator Client                              | 2.4.0                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| c3p0:JDBC<br>DataSources/Resource Pools     | 0.9.5.4               | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| Apache HttpMime                             | 4.5.10                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| kryo  | 2.24.0                | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache Hadoop                               | ozone-0.4.0-alpha-RC0 | Apache License 2.0                              | SOURCE_CODE        |
| Apache Avro Mapred API                      | 1.7.7                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Websocket :: API                   | 9.4.19.v20190610      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| minlog                                      | 1.3.0                 | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
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| Java EE Transaction API                     | 3.1-b41               | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
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| Repackaged As A Module   | 2.5.0            | Eclipse Public License 2.0                 | DYNAMICALLY_LINKED |
| pyrolite   | 4.9              | MIT License                                | DYNAMICALLY_LINKED |
| Jackson-module-parameter-na<br>mes                                     | 2.9.8            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| force-wsc  | 35.1.0           | BSD 3-clause "New" or<br>"Revised" License | DYNAMICALLY_LINKED |
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| StAX   | 1                | Apache License 2.0                         | DYNAMICALLY_LINKED |
| JUL to SLF4J bridge  | 1.7.28           | MIT License                                | DYNAMICALLY_LINKED |
| Jackson-datatype-jdk8  | 2.9.8            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| com.google.api.grpc:proto-goog<br>le-common-protos                     | 1.15.0           | Apache License 2.0                         | DYNAMICALLY_LINKED |
| jsr107   | 1.0.0            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Apache Calcite Avatica   | 1.10.0.3.1.0.9-5 | Apache License 2.0                         | DYNAMICALLY_LINKED |
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| PDFBox JBIG2 ImageIO plugin  | 3.0.2            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| org.genomicsdb:genomicsdb  | 1.2.1            | MIT License                                | DYNAMICALLY_LINKED |
| MIME4J   | 0.8.3            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Jackson 2 extensions to the<br>Google HTTP Client Library for<br>Java. | 1.29.0           | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Jackcess   | jackcess-3.0.1   | Apache License 2.0                         | DYNAMICALLY_LINKED |
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| HK2 Implementation Utilities  | 2.5.0-b32        | Common Development and Distribution License 1.1    | DYNAMICALLY_LINKED |
| vis.js  | 4.16.1           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| GRIB Decoder API  | 4.5.5            | NetCDF license                                     | DYNAMICALLY_LINKED |
| classfilewriter   | 1.1.2            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Google HTTP Client Library for<br>Java  | 1.29.1           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache SIS utilities  | 1                | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Sundrio :: Code generation  | 0.21.0           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| io.grpc:grpc-context  | 1.18.0           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| Spark Project Catalyst  | 2.0.0            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| RaphaëI   | min              | MIT License  | DYNAMICALLY_LINKED |
| jQuery  | 1.8.2            | MIT License  | DYNAMICALLY_LINKED |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server   | 9.4.18           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Google Auth Library For Java<br>OAuth2 HTTP   | 0.15.0           | BSD 3-clause "New" or<br>"Revised" License         | DYNAMICALLY_LINKED |
| juniversalchardet   | 1.0.3            | Mozilla Public License 1.1                         | DYNAMICALLY_LINKED |
| jQuery  | 1.9.0            | MIT License  | DYNAMICALLY_LINKED |
| DataTables  | 1.10.4           | MIT License  | DYNAMICALLY_LINKED |
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| rome-utils  | 1.12.2           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Parquet Hadoop<br>Bundle   | 1.10.0.3.1.4.7-3 | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Netty Project   | 3.8.0.Final      | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| JMatIO   | 1.5                       | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
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| Twill common library   | 0.13.0                    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| javax.annotation API   | 1.3.2                     | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Expression Language API  | 3.0.1-b03                 | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Cloudera CDH   | 6.0.0                     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| com.google.api.grpc:proto-goog<br>le-iam-v1                        | 0.12.0                    | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| jackson-databind                                  | 2.9.8                               | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Google Cloud BigQuery                             | 1.76.0                              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| jersey-repackaged-guava                           | 2.25.1                              | Common Development and<br>Distribution License 1.1 | DYNAMICALLY_LINKED |
| JCL 1.2 Implemented Over<br>SLF4J                 | 1.7.28                              | MIT License  | DYNAMICALLY_LINKED |
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| istack common utility code<br>runtime             | 3.0.8                               | Eclipse Distribution License - v<br>1.0            | DYNAMICALLY_LINKED |
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| ASM                                     | 7.2                 | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Animal Sniffer Annotations              | 1.18                | MIT License                                     | DYNAMICALLY_LINKED |
| Apache Flink                            | 0.7.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Log Redactor                            | 2.0.5               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| MySQL Connector/J                       | 5.1.29              | GNU General Public License v2.0 only            | DYNAMICALLY_LINKED |
| Log4J API                               | 2.11.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Calcite Linq4j                          | 1.16.0.3.1.5.4-3    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld SE (Uber Jar)                      | 2.4.8.Final         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-dataformat-yaml                 | 2.9.8               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| SnakeYAML                               | 1.23                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache HttpComponents Core              | 4.4.12              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google OAuth Client Library for<br>Java | 1.28.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spark Project Unsafe                    | 2.0.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Expression Language API                 | 1.0.0.Alpha1        | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| jQuery UI                               | 1.12.1              | MIT License                                     | DYNAMICALLY_LINKED |
| TagSoup                                 | 1.2.1               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons Lang                     | 3.9                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons CSV                      | commons-csv-1.7     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons Logging                  | 1.2                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Parquet Encodings                | 1.7.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackcess Encrypt                        | 3.0.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-module-scala                    | 2.4.0-rc1           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spark Project Core                      | 2.0.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| univocity-parsers                       | 2.1.1               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackson-JAXRS-base                      | 2.9.8               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Parquet Column                   | 1.10.0.3.0.0.0-1574 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jansi                                   | 1.15                | Apache License 2.0                              | DYNAMICALLY_LINKED |

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| faunadb-android-shaded  | 1.2.7                  | Mozilla Public License 2.0                      | DYNAMICALLY_LINKED |  |
| Weld Core   | 2.4.8.Final            | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Apache XBean :: ASM 5<br>shaded (repackaged)                        | 4.4                    | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| leveldb-api   | 0.6                    | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| HK2 API module  | 2.5.0-b30              | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |  |
| JCIP Annotations under<br>Apache License                            | 1.0-1                  | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Spring Framework  | 5.1.5.RELEASE          | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| parso   | 2.0.11                 | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Google APIs Client Library for<br>Java                              | v1.28.0                | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| XMP Library for Java  | 5.1.3                  | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |  |
| Commons Compiler  | 2.7.8                  | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |  |
| leveldbjni  | 1.8                    | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |  |
| Apache Tika plugin for Ogg,<br>Vorbis and FLAC                      | 0.8                    | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Apache POI: OOXML-schemas   | 4.1.1                  | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| dagre-d3  | unknown                | MIT License                                     | DYNAMICALLY_LINKED |  |
| Commons IO  | 2.6                    | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Apache SIS metadata   | 1                      | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Woodstox  | 5.0.3                  | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Spring Commons Logging<br>Bridge                                    | 5.1.4.RELEASE          | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Units of Measurement API  | 1                      | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |  |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server | jetty-9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Apache Lucene   | 4.10.4                 | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| json4s-core   | 3.2.11                 | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Spark Project Sketch  | 2.0.0                  | Apache License 2.0                              | DYNAMICALLY_LINKED |  |

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| Apache SIS features                          | 1                 | Apache License 2.0                         | DYNAMICALLY_LINKED |
| reflectasm                                   | 1.09              | BSD 3-clause "New" or<br>"Revised" License | DYNAMICALLY_LINKED |
| Spring Boot Configuration<br>Processor       | 2.1.1.RELEASE     | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Modernizr                                    | unknown           | BSD 3-clause "New" or<br>"Revised" License | DYNAMICALLY_LINKED |
| Apache Parquet Jackson                       | 1.7.0             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Jackson-Datatype-JSR310                      | 2.9.8             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| htrace-core                                  | 4.2.0-incubating  | Apache License 2.0                         | DYNAMICALLY_LINKED |
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| jQuery                                       | 1.11.1            | MIT License                                | DYNAMICALLY_LINKED |
| camunda Spin - all dataformats<br>in one     | 1.6.0             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| chill  | 0.8.0             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Apache Spark                                 | 2.4.0             | Apache License 2.0                         | SOURCE_CODE        |
| Ning-compress-LZF                            | 1.0.3             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| OpenCensus                                   | 0.19.2            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| spark-avro                                   | 4.0.0             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Apache SIS referencing                       | 1                 | Apache License 2.0                         | DYNAMICALLY_LINKED |
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| AutoValue Annotations                        | 1.7rc1            | Apache License 2.0                         | DYNAMICALLY_LINKED |
| stream-lib                                   | 2.7.0             | Apache License 2.0                         | DYNAMICALLY_LINKED |
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| HawtJNI Runtime                              | 1.9               | Apache License 2.0                         | DYNAMICALLY_LINKED |
| jackson-module-scala                         | 2.6.5             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Spark Project SQL                            | 2.0.0             | Apache License 2.0                         | DYNAMICALLY_LINKED |
| Go programming language                      | 20190428-snapshot | BSD 3-clause "New" or<br>"Revised" License | DYNAMICALLY_LINKED |

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| ANTLR                                    | 4.7.1                      | MIT License                                     | DYNAMICALLY_LINKED |
| jersey-connectors-apache                 | 2.25.1                     | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| hive-warehouse-connector                 | 1.0.0.3.1.2.2-1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Lucene                            | 7.4.0                      | Apache License 2.0                              | SOURCE_CODE        |
| Google Cloud Core HTTP                   | 1.74.0                     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jpam                                     | 1.1                        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jQuery                                   | Unknown                    | MIT License                                     | SOURCE_CODE        |
| GAX (Google Api eXtensions)              | 0.61.0                     | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| gcsio.jar                                | 1.9.17                     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-annotations                      | jackson-annotations-2.10.1 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ServiceLocator Default<br>Implementation | 2.5.0-b32                  | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| OpenNLP Tools                            | 1.9.2                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google Cloud Core                        | 1.74.0                     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Avro IPC                          | 1.7.7                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Java UnRar                               | 4.0.0                      | unRAR License                                   | DYNAMICALLY_LINKED |
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| Jettison - Json Stax<br>implementation   | 1.3.7                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| scala-compiler                           | 2.11.0                     | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Scala                                    | 2.11.8                     | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
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| Apache ORO                               | 2.0.8                      | Apache License 1.1                              | DYNAMICALLY_LINKED |
| empty                                    | 1.0.0                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Guava<br>InternalFutureFailureAccess<br>and InternalFutures | 1.0.1               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| netCDF-4 IOSP JNI connection to C library                   | 4.5.5               | NetCDF license                                  | DYNAMICALLY_LINKED |
| javax.annotation API  | 1.3                 | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| jQuery  | 3.3.1               | MIT License                                     | SOURCE_CODE        |
| D3.js   | unknown             | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache Parquet Jackson                                      | 1.10.0.3.0.0.0-1634 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| opencsv   | 2.3                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| kryo  | 3.0.3               | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Curator Framework   | 2.4.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache SIS common storage                                   | 1                   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Parquet Column                                       | 1.7.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Checker Qual  | 2.8.1               | MIT License                                     | DYNAMICALLY_LINKED |
| HPPC  | 0.8.0               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jsoup   | jsoup-1.12.1        | MIT License                                     | DYNAMICALLY_LINKED |
| ThreeTen backport   | 1.3.3               | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| json4s-jackson  | 3.2.11              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache PDFBox tools   | 2.0.17              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JavaMail  | 1.4                 | Sun JavaMail 1.4 License                        | DYNAMICALLY_LINKED |
| jQuery UI Layout  | 1.3.0-rc62          | MIT License                                     | DYNAMICALLY_LINKED |
| FindBugs jsr305   | 3.0.2               | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Joda Time  | 2.9.9   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| spark-bigquery   | 0.11.0-beta                                   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| unirest-java   | 3.6.00  | MIT License  | DYNAMICALLY_LINKED |
| one-lambda   | 1.0.0   | MIT License  | DYNAMICALLY_LINKED |
| Apache Parquet Format (Incubating)                                       | 2.3.0-incubating                              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| SLF4J API Module   | 1.8.0-beta4                                   | MIT License  | DYNAMICALLY_LINKED |
| Spark Launcher Project   | 2.0.0   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| jcodings   | 1.0.17  | MIT License  | DYNAMICALLY_LINKED |
| Google Guice   | 4   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| SLF4J API Module   | 1.8.0-alpha2                                  | MIT License  | DYNAMICALLY_LINKED |
| Injection API (JSR 330) version<br>1 repackaged as OSGi bundle           | 2.5.0-b02                                     | Common Development and<br>Distribution License 1.1 | DYNAMICALLY_LINKED |
| Apache Xerces2 J   | 2.12.0  | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| org.tukaani.xz   | 0.3   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Type arithmetic library for<br>Java5                                     | 1.3   | Common Development and<br>Distribution License 1.0 | DYNAMICALLY_LINKED |
| JavaBeans Activation<br>Framework API jar                                | 1.2.1   | BSD 3-clause "New" or<br>"Revised" License         | DYNAMICALLY_LINKED |
| empow utils  | 1.0.12-RELEASE                                | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Weld Web   | 3.0.0.Beta1                                   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache CXF   | cxf-3.3.4                                     | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| shared-tag-library   | 1.8.0-beta4                                   | MIT License  | DYNAMICALLY_LINKED |
| mp4parser  | 1.1.22  | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Java Native Access (JNA)   | 5.4.0   | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| mchange-commons-java   | 0.2.15  | Eclipse Public License 1.0                         | DYNAMICALLY_LINKED |
| Apache JempBox   | 1.8.16  | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| Spark Project Networking                           | 2.0.0             | Apache License 2.0   | DYNAMICALLY_LINKED |
| json-simple  | 1.1.1             | Apache License 2.0   | DYNAMICALLY_LINKED |
| Apache HBase - Shaded<br>Protocol                  | 2.0.2.3.1.0.131-1 | Apache License 2.0   | DYNAMICALLY_LINKED |
| Apache Calcite Avatica Metrics                     | 1.14.0            | Apache License 2.0   | DYNAMICALLY_LINKED |
| Apache HttpClient                                  | 4.5.10            | Apache License 2.0   | DYNAMICALLY_LINKED |
| Apache Ivy   | 2.4.0             | Apache License 2.0   | DYNAMICALLY_LINKED |
| Apache Spark                                       | 2.4.4             | Apache License 2.0   | DYNAMICALLY_LINKED |
| Joda Time  | 2.2               | Apache License 2.0   | DYNAMICALLY_LINKED |
| Spring Framework                                   | 5.1.4.RELEASE     | Apache License 2.0   | DYNAMICALLY_LINKED |
| htrace-core  | 3.2.0-incubating  | Apache License 2.0   | DYNAMICALLY_LINKED |
| jakarta.xml.bind-api                               | 2.3.2             | Eclipse Distribution License - v<br>1.0                          | DYNAMICALLY_LINKED |
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| LZ4 Java   | 1.3.0             | Apache License 2.0   | DYNAMICALLY_LINKED |
| fastutil   | 6.5.7             | Apache License 2.0   | DYNAMICALLY_LINKED |
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| "Java Concurrency in Practice"<br>book annotations | 1                 | Creative Commons Attribution 2.5                                 | DYNAMICALLY_LINKED |
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| ParaNamer Core                                 | 2.6         | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
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| Jackson Integration for Metrics                | 3.1.2       | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jQuery   | 3.2.1       | MIT License                                     | DYNAMICALLY_LINKED |
| Apache SIS NetCDF storage                      | 1           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Ogg and Vorbis for Java, Core                  | 0.8         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Guava: Google Core Libraries<br>for Java       | 19          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JBoss Logging 3                                | 3.2.1.Final | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jersey-server                                  | 1.9         | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Weld Parent                                    | 2.4.SP2     | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| t-digest                                       | 3.2         | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Apache Commons Lang                            | 2.6         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld SE Parent                                 | 2.4.8.Final | Apache License 2.0                              | DYNAMICALLY_LINKED |
| json4s-ast                                     | 3.2.11      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JAX-RS provider for JSON content type          | 1.9.13      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| XZ for Java                                    | 1           | Public Domain                                   | DYNAMICALLY_LINKED |
| atlas-client-common                            | 1.1.0       | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Javax Inject from the JSR-330<br>Expert Group  | 1           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Directory Studio                        | 2.0.0-M15   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Log4j JUL Adapter                       | 2.11.2      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld SPIs for container integration            | 2.4.SP2     | Apache License 2.0                              | DYNAMICALLY_LINKED |

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| jQuery                              | 1.8.2          | MIT License                                     | DYNAMICALLY_LINKED |
| jQuery                              | 1.9.0          | MIT License                                     | DYNAMICALLY_LINKED |
| Apache Commons Lang                 | 3.8.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| CDI APIs                            | 1.2            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Atlas Common                 | 0.8.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| scala-compiler                      | 2.11.8         | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| jackson-databind                    | 2.9.8          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| nscala-time                         | 1.6.0          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| txw2                                | 20110809       | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| google-gson                         | 2.5            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| CDI APIs                            | 1.2.0.redhat-2 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Data Mapper for Jackson             | 1.9.13         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Hadoop Annotations           | 2.7.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| java-xmlbuilder                     | 0.4            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Java(TM) EE Interceptors 1.2<br>API | 1.0.0.Final    | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Apache log4j                        | 2.11.2         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-core                        | 1.9.13         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JSch                                | 0.1.42         | JSch License                                    | DYNAMICALLY_LINKED |
| classfilewriter                     | 1.1.2.Final    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| akka-persistence_2.11               | 2.5.5          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| json4s                              | 3.2.11         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache HttpComponents Core          | 4.4.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| hadoop-common                       | 2.7.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Protocol Buffer Java API            | 2.5.0          | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Curator Framework                   | 2.7.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jsr311-api                          | 1.1.1          | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |

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| jackson-module-jaxb-annotation<br>s          | 1.9.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Log4J API                                    | 2.11.2             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-module-jaxb-annotation<br>s          | 2.9.8              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Netty Project                                | 3.7.0.Final        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Flink                                 | 0.7.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-annotations                          | 2.9.8              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld SE (Uber Jar)                           | 2.4.8.Final        | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| An open source Java toolkit for<br>Amazon S3 | 0.9.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Expression Language API                      | 1.0.0.Alpha1       | Common Development and Distribution License 1.0 | DYNAMICALLY_LINKED |
| Apache Commons Logging                       | 1.2                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| StAX   | 1.0-2              | Common Development and Distribution License 1.0 | DYNAMICALLY_LINKED |
| Jackson-JAXRS-base                           | 2.9.8              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld Core                                    | 2.4.8.Final        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Java Architecture for XML<br>Binding         | 2.2.2-promoted-b98 | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| SLF4J Extensions Module                      | 1.8.0-beta4        | MIT License                                     | DYNAMICALLY_LINKED |
| Apache log4j                                 | 1.2.17             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Atlas Integration                     | 0.8.1              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| config - com.typesafe:config                 | 1.2.1              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| spray-util                                   | 1.3.3              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| json4s-core                                  | 3.2.11             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache ZooKeeper                             | 3.4.6              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons<br>Configuration              | 1.1                | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| JLine - Java Console input<br>Library        | 0.9.94             | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |

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| snappy-java                                | 1.0.4.1          | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| jackson-core                               | 2.9.8            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Spring Framework                           | 4.3.8.RELEASE    | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Java Servlet API                           | 2.1              | Common Development and Distribution License 1.0    | DYNAMICALLY_LINKED |
| ApacheDS Protocol Kerberos<br>Codec        | 2.0.0-M15        | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| stream-lib                                 | 2.7.0            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| JUL to SLF4J bridge                        | 1.7.21           | MIT License  | DYNAMICALLY_LINKED |
| Curator Recipes                            | 2.7.1            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Commons IO                                 | 2.4              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Directory LDAP API<br>Utilities     | 1.0.0-M20        | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Log4j SLF4J 1.8+<br>Binding         | 2.11.2           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Commons CLI                         | 1.2              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| Apache Atlas Typesystem                    | 0.8.1            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| Apache Avro                                | 1.7.4            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| JAXB XML Binding Code<br>Generator Package | 2.2.3-1          | Common Development and Distribution License 1.1    | DYNAMICALLY_LINKED |
| Joda Time                                  | 2.5              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| jQuery                                     | Unknown          | MIT License  | DYNAMICALLY_LINKED |
| Jettison - Json Stax<br>implementation     | 1.3.7            | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| htrace-core                                | 3.1.0-incubating | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Atlas Client                        | 0.8.1            | Apache License 2.0                                 | DYNAMICALLY_LINKED |

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| Curator Client                                 | 2.7.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| snappy-java                                    | 1.0.4.1-wso2v1 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| cglib  | 2.2.2          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jersey-servlet                                 | 1.11-b01       | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Joda Convert                                   | 1.2            | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| SLF4J API Module                               | 1.8.0-beta4    | MIT License                                     | DYNAMICALLY_LINKED |
| scala-asm                                      | 5.0.4-scala-3  | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| org.tukaani.xz                                 | 0.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld Web                                       | 3.0.0.Beta1    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| shared-tag-library                             | 1.8.0-beta4    | MIT License                                     | DYNAMICALLY_LINKED |
| ParaNamer Core                                 | 2.6            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| FindBugs jsr305                                | 3.0.0          | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| fastutil                                       | 6.5.16         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Directory API ASN.1<br>API              | 1.0.0-M19      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| StAX   | 1.0.1          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jersey-json                                    | 1.19.4         | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| jackson-jaxrs-json-provider                    | 2.9.8          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| uri-template                                   | 0.9            | Apache License 2.0                              | DYNAMICALLY_LINKED |

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| Guava: Google Core Libraries<br>for Java          | 19            | Apache License 2.0   | SOURCE_CODE        |
| jackson-jaxrs-json-provider                       | 2.9.8         | Apache License 2.0   | DYNAMICALLY_LINKED |
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| Common Annotations 1.2 API                        | 1.0.0.Final   | Common Development and Distribution License 1.1              | DYNAMICALLY_LINKED |
| sketches-library                                  | 0.6.2         | Apache License 2.0   | DYNAMICALLY_LINKED |
| Spring-Cloud Core                                 | 2.0.5.RELEASE | Apache License 2.0   | DYNAMICALLY_LINKED |
| JBoss Logging 3                                   | 3.2.1.Final   | Apache License 2.0   | DYNAMICALLY_LINKED |
| t-digest  | 3.2           | Apache License 2.0   | DYNAMICALLY_LINKED |
| Lucene Sandbox                                    | 4.10.4        | Apache License 2.0   | DYNAMICALLY_LINKED |
| nd4j-uberjar                                      | 1.0.0-beta5   | Apache License 2.0   | DYNAMICALLY_LINKED |
| JBoss Logging 3                                   | 3.3.2.Final   | Apache License 2.0   | DYNAMICALLY_LINKED |
| Commons IO  | 2.5           | Apache License 2.0   | DYNAMICALLY_LINKED |
| Weld SPIs for container integration               | 2.4.SP2       | Apache License 2.0   | DYNAMICALLY_LINKED |
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| javax.ws.rs-api                                   | 2.0.1         | Common Development and Distribution License 1.1              | DYNAMICALLY_LINKED |
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| json-schema-core                                  | 1.2.5         | GNU Lesser General Public<br>License v2.1 or later           | DYNAMICALLY_LINKED |
| Jackson-module-parameter-na<br>mes                | 2.9.8         | Apache License 2.0   | DYNAMICALLY_LINKED |
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| btf   | 1.2           | Apache License 2.0   | DYNAMICALLY_LINKED |
| Jackson-datatype-jdk8                             | 2.9.8         | Apache License 2.0   | DYNAMICALLY_LINKED |
| DocMockRest                                       | 0.0.2         | Apache License 2.0   | DYNAMICALLY_LINKED |
| org.genomicsdb:genomicsdb                         | 1.2.1         | MIT License  | DYNAMICALLY_LINKED |

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| Woodstox  | 4.1.5                     | Apache License 2.0                                    | DYNAMICALLY_LINKED |
| classfilewriter   | 1.1.2                     | Apache License 2.0                                    | DYNAMICALLY_LINKED |
| HK2 Implementation Utilities  | 2.5.0-b32                 | Common Development and Distribution License 1.1       | DYNAMICALLY_LINKED |
| Joda Time   | 2.3                       | Apache License 2.0                                    | DYNAMICALLY_LINKED |
| Apache Commons Lang   | 3.8.1                     | Apache License 2.0                                    | DYNAMICALLY_LINKED |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server   | 9.4.18                    | (Apache License 2.0 OR<br>Eclipse Public License 1.0) | DYNAMICALLY_LINKED |
| FindBugs - findbugs eclipse plugin  | 3.0.0                     | GNU Lesser General Public<br>License v2.1 or later    | SOURCE_CODE        |
| OSGi resource locator bundle -<br>used by various API providers<br>that rely on META-INF/services<br>mechanism to locate providers. | 1.0.1                     | Common Development and<br>Distribution License 1.1    | DYNAMICALLY_LINKED |
| Lucene Analyzers  | 4.10.4                    | Apache License 2.0                                    | DYNAMICALLY_LINKED |
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| Hibernate Validator   | 6.0.14.Final-redhat-00001 | Apache License 2.0                                    | DYNAMICALLY_LINKED |
| javax.annotation API  | 1.3.2                     | Common Development and Distribution License 1.1       | DYNAMICALLY_LINKED |
| Expression Language API   | 3.0.1-b03                 | Common Development and Distribution License 1.1       | DYNAMICALLY_LINKED |
| Dozer   | 5.5.1                     | Apache License 2.0                                    | DYNAMICALLY_LINKED |
| Spring Boot   | 2.1.2.RELEASE             | Apache License 2.0                                    | DYNAMICALLY_LINKED |
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| beanvalidation-api  | 2.0.1.Final               | Apache License 2.0                                    | DYNAMICALLY_LINKED |
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| Spring Boot                                       | 2.1.1.RELEASE  | Apache License 2.0   | DYNAMICALLY_LINKED |
| Lucene Grouping                                   | 4.10.4         | Apache License 2.0   | DYNAMICALLY_LINKED |
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| Spring Boot                                       | v2.1.3.RELEASE | Apache License 2.0   | DYNAMICALLY_LINKED |
| Apache log4j                                      | 2.11.2         | Apache License 2.0   | DYNAMICALLY_LINKED |
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| Apache Tomcat Embed                               | 9.0.14         | Apache License 2.0   | DYNAMICALLY_LINKED |
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| Lucene Facets                                     | 4.10.4         | Apache License 2.0   | DYNAMICALLY_LINKED |
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| jackson-module-jaxb-annotation<br>s               | 2.9.8          | Apache License 2.0   | DYNAMICALLY_LINKED |
| laaws-repository-core                             | 2.0.13.0       | BSD 3-clause "New" or<br>"Revised" License   | DYNAMICALLY_LINKED |
| jackson-annotations                               | 2.9.8          | Apache License 2.0   | DYNAMICALLY_LINKED |

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| Weld SE (Uber Jar)  | 2.4.8.Final            | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Weld Core   | 2.4.8.Final            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| HK2 API module  | 2.5.0-b30              | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Spring Framework  | 5.1.5.RELEASE          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| MapStruct Core  | 1.3.0.Final            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Noggit JSON Parser  | 0.8                    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spring Commons Logging<br>Bridge                                    | 5.1.4.RELEASE          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server | jetty-9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Lucene   | 4.10.4                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-core  | 2.9.8                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Lucene Queries  | 4.10.4                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spring Boot Configuration<br>Processor                              | 2.1.1.RELEASE          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackson-Datatype-JSR310   | 2.9.8                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Lucene codecs   | 4.10.4                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| stream-lib  | 2.7.0                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Log4j SLF4J 1.8+<br>Binding                                  | 2.11.2                 | Apache License 2.0                              | DYNAMICALLY_LINKED |

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| msg-simple   | 1.1           | Lesser General Public License                      | DYNAMICALLY_LINKED                          |
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| Infinispan Embedded Query                                      | 7.0.1.Final   | Apache License 2.0                                 | DYNAMICALLY_LINKED                          |
| Maven Wagon HTTP Provider                                      | 3.1.0         | Apache License 2.0                                 | DYNAMICALLY_LINKED                          |
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| libphonenumber   | 6.2           | Apache License 2.0                                 | DYNAMICALLY_LINKED                          |
| Lucene Join  | 4.10.4        | Apache License 2.0                                 | DYNAMICALLY_LINKED                          |
| qcloud sms java sdk  | 1.0.3         | MIT License  | DYNAMICALLY_LINKED                          |
| JSON-java  | 20180813      | JSON License                                       | DYNAMICALLY_LINKED                          |
| SLF4J API Module   | 1.8.0-beta4   | MIT License  | DYNAMICALLY_LINKED                          |
| SLF4J API Module   | 1.8.0-alpha2  | MIT License  | DYNAMICALLY_LINKED                          |
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| JUL to SLF4J bridge  | 1.7.25        | MIT License  | DYNAMICALLY_LINKED                          |
| Weld Web   | 3.0.0.Beta1   | Apache License 2.0                                 | DYNAMICALLY_LINKED                          |
| FindBugs jsr305  | 3.0.0         | Apache License 2.0                                 | DYNAMICALLY_LINKED                          |
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| htrace-core   | 3.0.4             | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| jackson-module-jaxb-annotation<br>s                                 | 1.8.8             | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| hadoop-yarn-api   | 2.6.0-cdh5.3.6 | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| JSch   | 0.1.42         | JSch License                                    | DYNAMICALLY_LINKED |
| navigator-sdk-client                         | 2.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Netty Project                                | 3.7.0.Final    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Log4J API                                    | 2.11.2         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-annotations                          | 2.9.8          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-module-jaxb-annotation<br>s          | 2.9.8          | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Expression Language API                      | 1.0.0.Alpha1   | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| snappy-java                                  | 1.0.5          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| fastutil                                     | 6.5.7          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| hadoop-yarn-server-common                    | 2.6.0-cdh5.4.2 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| hadoop-yarn-server-nodemana<br>ger           | 2.6.0-cdh5.4.0 | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Apache HttpComponents Core                   | 4.2.4              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jerseyguice                                  | 1.9                | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Java Architecture for XML<br>Binding         | 2.2.2-promoted-b98 | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Apache log4j                                 | 1.2.17             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| leveldb-api                                  | 0.6                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| cglib  | 2.2.1-v20090111    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Hadoop Amazon Web<br>Services support | 2.6.0-cdh5.4.0     | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Java Servlet API                             | 2.1                | Common Development and Distribution License 1.0 | DYNAMICALLY_LINKED |
| stream-lib                                   | 2.7.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| hadoop-mapreduce-client-app                  | 2.6.0-cdh5.4.0     | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| hadoop-mapreduce-client-com<br>mon                        | 2.6.0-cdh5.4.0 | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| jackson-jaxrs-json-provider                                 | 2.9.8            | Apache License 2.0   | DYNAMICALLY_LINKED |
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| Jetty :: UnixSocket   | 9.4.18.v20190429 | Apache License 2.0   | DYNAMICALLY_LINKED |
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| CouchbaseMock                               | 1.5.25             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| HttpClient Wrappers                         | 4.5.5              | NetCDF license                                  | DYNAMICALLY_LINKED |
| Spring-Cloud Core                           | 2.0.5.RELEASE      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| org.junit.jupiter:junit-jupiter-para        | 5.5.0-M1           | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |
| Java Native Access (JNA)                    | 5.5.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JCommander Library                          | 1.35               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Nimbus LangTag                              | 1.4.4              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| XMLBeans                                    | 3.1.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| chill-java                                  | 0.8.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Metrics Core                                | 3.1.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Itadaki jbzip2                              | 0.9.1              | MIT License                                     | DYNAMICALLY_LINKED |
| JBoss Logging 3                             | 3.2.1.Final        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Tika                                 | 1.23               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| HikariCP                                    | 2.4.13             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| pathman                                     | 0.0.27             | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Metrics Core                                | 3.1.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| appengine-endpoints-deps                    | 1.9.0              | Google App Engine Terms of<br>Service License   | DYNAMICALLY_LINKED |
| Project Lombok                              | 1.18.8             | MIT License                                     | DYNAMICALLY_LINKED |
| t-digest                                    | 3.2                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Wavefront Java Integrations<br>Core Library | 3.22               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Metrics Health Checks                       | 3.1.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: FastCGI :: Client                  | 9.4.18.v20190429   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| GroupBy - Common - HTTP                     | 105                | MIT License                                     | DYNAMICALLY_LINKED |

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| Google Cloud BigQuery                              | 1.74.0           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| c3p0:JDBC<br>DataSources/Resource Pools            | 0.9.5.4          | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| Apache HttpMime                                    | 4.5.10           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JavaMail API pop3 provider                         | 1.6.1            | Common Development and Distribution License 1.0 | DYNAMICALLY_LINKED |
| Java Architecture for XML<br>Binding               | 2.3.1            | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
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| Apache Commons BeanUtils                           | 1.8.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| htrace-core  | 4.1.0-incubating | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Geronimo Annotation<br>Spec 1.3             | 1.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: HTTP2 :: Server                           | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Lucene Sandbox                                     | 4.10.4           | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Apache Commons<br>Configuration                    | 1.6              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: ALPN :: OpenJDK8<br>Server Implementation | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Apache JSP                                | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Struts                                      | 1.3.8            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| flyway-core  | 5.2.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| nd4j-uberjar                                       | 1.0.0-beta5      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Hazelcast Session<br>Managers             | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons Lang                                | 2.6              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Standard Taglib<br>Implementation           | 1.2.5            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld SPIs for container integration                | 2.4.SP2          | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| json4s-ast  | 3.2.11           | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| Bootstrap (Twitter)   | 2.3.2            | Apache License 2.0                                     | DYNAMICALLY_LINKED |
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| json-schema-core  | 1.2.5            | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| Annotations for Metrics   | 3.1.0            | Apache License 2.0                                     | DYNAMICALLY_LINKED |
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| Jetty :: Infinispan Session<br>Manager Embedded with<br>Querying    | 9.4.17.v20190418 | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| JUL to SLF4J bridge   | 1.7.28           | MIT License  | DYNAMICALLY_LINKED |
| DocMockRest   | 0.0.2            | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| com.google.api.grpc:proto-goog<br>le-common-protos                  | 1.15.0           | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| SLF4J LOG4J-12 Binding  | 1.8.0-alpha1     | MIT License  | DYNAMICALLY_LINKED |
| jetty   | 6.1.26           | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| ScalaTest   | 2.2.6            | Apache License 2.0                                     | DYNAMICALLY_LINKED |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server | 9.4.9.v20180320  | (Apache License 2.0 AND<br>Eclipse Public License 1.0) | SOURCE_CODE        |
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| Jackson 2 extensions to the<br>Google HTTP Client Library for<br>Java. | 1.29.0           | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| PDFBox JBIG2 ImageIO plugin  | 3.0.2            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackson module: Paranamer  | 2.6.5            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| org.genomicsdb:genomicsdb  | 1.2.1            | MIT License                                     | DYNAMICALLY_LINKED |
| MIME4J   | 0.8.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| error-prone annotations  | 2.3.2            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackcess   | jackcess-3.0.1   | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| jackson-core   | 1.9.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons BeanUtils   | 1.9.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| RaphaëI   | min              | MIT License  | DYNAMICALLY_LINKED |
| jQuery  | 1.8.2            | MIT License  | DYNAMICALLY_LINKED |
| Google Auth Library For Java<br>OAuth2 HTTP   | 0.15.0           | BSD 3-clause "New" or<br>"Revised" License                                   | DYNAMICALLY_LINKED |
| juniversalchardet   | 1.0.3            | Mozilla Public License 1.1   | DYNAMICALLY_LINKED |
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| com.google.api.grpc:proto-goog<br>le-iam-v1                         | 0.12.0      | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| classfilewriter   | 1.2.1.Final | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Apache ActiveMQ                                       | 5.9.0                               | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| jersey-media-jaxb                                     | 2.22.2                              | Common Development and<br>Distribution License 1.1 | DYNAMICALLY_LINKED |
| Cloudera CDH  | 5.9.1                               | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Spark  | 2.4.0-rc3                           | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Tomcat   | 8.5.40                              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| RoaringBitmap   | 0.5.11                              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| jackson-databind                                      | 2.9.8                               | Apache License 2.0                                 | DYNAMICALLY_LINKED |
| Apache Hadoop Auth                                    | 2.9.2                               | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| jersey-repackaged-guava                               | 2.25.1                              | Common Development and<br>Distribution License 1.1 | DYNAMICALLY_LINKED |
| CDI APIs  | 1.2.0.redhat-2                      | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| istack common utility code runtime                    | 3.0.8                               | Eclipse Distribution License - v<br>1.0            | DYNAMICALLY_LINKED |
| Apache HttpComponents Core                            | 4.4.11                              | Apache License 2.0                                 | DYNAMICALLY_LINKED |
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| jackson-core  | 2.10.1           | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Aopalliance Version 1.0<br>Repackaged As A Module                       | 2.5.0-b14        | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |  |
| Ehcache   | 2.6.2            | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| Apache Commons CSV  | csv-1.6          | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
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| Jetty :: Servlet Handling   | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
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| Lucene Grouping   | 4.10.4           | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
| java-xmlbuilder   | 0.4              | Apache License 2.0                              | DYNAMICALLY_LINKED |  |
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| Bootstrap (Twitter)                      | unknown               | MIT License                                     | DYNAMICALLY_LINKED |
| GroupBy - Common - HTTP                  | 164                   | MIT License                                     | DYNAMICALLY_LINKED |
| Lucene Query Parser                      | 4.10.4                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Enunciate - Project Lombok<br>Support    | 2.12.1                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Java(TM) EE Interceptors 1.2<br>API      | 1.0.0.Final           | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Apache Parquet Generator                 | 1.7.0                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache JAMES Mime4j (DOM)                | 0.8.3                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| boilerpipe                               | 1.1.0                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Py4J                                     | 0.10.1                | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| JOpt Simple                              | 4.6                   | MIT License                                     | DYNAMICALLY_LINKED |
| Apache POI: scratchpad                   | 4.1.1                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache log4j                             | 2.11.2                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| snappy-java                              | 1.1.2                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google Guice                             | 3                     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Lucene                            | 6.6.2                 | Apache License 2.0                              | SOURCE_CODE        |
| Apache Commons Codec                     | 1.12                  | Apache License 2.0                              | SOURCE_CODE        |
| rome                                     | 1.12.2                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| curvesapi                                | 1.06                  | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Guava: Google Core Libraries<br>for Java | 28.1-jre              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JGraphT - Core                           | 1.3.1                 | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |
| objenesis                                | 2.1                   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| XZ for Java                              | 1.8                   | Public Domain                                   | DYNAMICALLY_LINKED |
| BigQuery API v2 (revision 80)            | v2-rev20190423-1.28.0 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| stax-ex                                  | 1.8.1                 | Eclipse Distribution License - v<br>1.0         | DYNAMICALLY_LINKED |
| classfilewriter                          | 1.1.2.Final           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Taglibs                           | 1.2.5                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jakarta Annotations API                  | 1.3.4                 | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |

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|---|------------------|---|--------------------|
| EclipseLink ANTLR   | 2.6.6-RC1        | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| javax.transaction API   | 1.3              | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Apache Commons Validator  | 1.3.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Eclipse Compiler for Java(TM)                                       | 3.17.0           | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |
| Lucene Facets   | 4.10.4           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-core  | 1.9.13           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| faunadb-android-shaded  | 1.2.7            | Mozilla Public License 2.0                      | DYNAMICALLY_LINKED |
| Checker Qual  | 2.5.2            | MIT License                                     | DYNAMICALLY_LINKED |
| ReflectASM  | 1.10.1           | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| hive-metastore  | 1.1.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Websocket :: Server  | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Microsoft JDBC Driver for SQL<br>Server                             | 8.2.0.jre8       | MIT License                                     | DYNAMICALLY_LINKED |
| JSON Schema Validator   | 2.2.6            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ASM   | 5.0.4            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Open JSON   | 1.0.11           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| GeoAPI  | 3.0.1            | Open Geospatial Consortium Software License     | DYNAMICALLY_LINKED |
| snappy-java   | 1.1.2.4          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server | 2.5-20081211     | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Solr Solrj   | 5.5.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Mango: Assembly   | 0.0.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ASM Tree  | 5.0.3            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Jetty :: Websocket :: API   | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Guava: Google Core Libraries<br>for Java                            | 20               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| javax.ws.rs-api   | 2.1.5            | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |
| Javassist   | 3.20.0-GA        | Apache License 2.0                              | DYNAMICALLY_LINKED |

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|---|--------------------|---|--------------------|
| jersey-media-multipart  | 2.25.1             | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Curator Framework   | 2.7.1              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google Auth Library for Java -<br>Credentials                               | 0.15.0             | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Kryo Shaded   | 3.0.3              | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| bigquery-connector.jar  | hadoop2-0.13.17    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: CDI :: Core  | 9.4.18.v20190429   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-module-jaxb-annotation<br>s   | 2.9.8              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache POI  | 4.1.1              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Websocket ::<br>javax.websocket.server ::<br>Server Implementation | 9.4.18.v20190429   | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Shiro  | 1.3.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Bouncy Castle PKIX, CMS,<br>EAC, TSP, PKCS, OCSP,<br>CMP, and CRMF APIs     | 1.64               | MIT License                                     | DYNAMICALLY_LINKED |
| SentimentAnalysisParser   | 0.1                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ASM   | 7.2                | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| ANTLR   | 4.5.3              | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache Commons Pool   | commons-pool-2.6.1 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| laaws-repository-core   | 2.0.13.0           | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Animal Sniffer Annotations  | 1.18               | MIT License                                     | DYNAMICALLY_LINKED |
| Apache Flink  | 0.7.0              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Log Redactor  | 2.0.5              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Rhino Unofficial Distribution For<br>Wro4j                                  | 1.7R5-20130223     | Mozilla Public License 2.0                      | DYNAMICALLY_LINKED |
| MySQL Connector/J   | 5.1.29             | MySQL Commercial License                        | DYNAMICALLY_LINKED |
| jackson-annotations   | 2.9.8              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Log4J API   | 2.11.2             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| EclipseLink SDO   | 2.6.0              | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |

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| Component   | Version          | License   | Usage              |
|---|------------------|---|--------------------|
| JVM Integration for Metrics                                 | 3.1.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ANTLR   | 2.7.2            | ANTLR Software Rights Notice                    | DYNAMICALLY_LINKED |
| abego TreeLayout Core                                       | 1.0.1            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Jetty :: Asynchronous HTTP<br>Client                        | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld SE (Uber Jar)  | 2.4.8.Final      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| TagSoup   | 1.2.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: ALPN :: Conscrypt<br>Server Implementation         | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Injection API (JSR 330) version 1 repackaged as OSGi bundle | 2.5.0-b30        | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| hoodie-utilities  | 0.4.7            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-dataformat-yaml                                     | 2.9.8            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Shiro :: Cryptography ::<br>Hashing                  | 1.5.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| SnakeYAML   | 1.23             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jakarta Annotations API                                     | 1.0.1.4-jre8     | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |
| Apache Solr Solrj   | 7.5.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache HttpComponents Core                                  | 4.4.12           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google OAuth Client Library for Java                        | 1.28.0           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spark Project Unsafe  | 2.0.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Expression Language API                                     | 1.0.0.Alpha1     | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| An open source Java toolkit for<br>Amazon S3                | 0.9.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons CSV  | commons-csv-1.7  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Commons IO  | 2.6              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons Lang   | 3.9              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackcess Encrypt  | 3.0.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Parquet Encodings                                    | 1.7.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons Logging                                      | 1.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JZlib   | 1.1.3            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |

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| Component                                    | Version          | License   | Usage              |
|--|------------------|---|--------------------|
| Metrics Utility Servlets                     | 3.1.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Proxy                               | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| EclipseLink DBWS                             | 2.6.0            | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| jackson-coreutils                            | 1.8              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-module-scala                         | 2.4.0-rc1        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Example :: Jetty Quick Start                 | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spark Project Core                           | 2.0.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| univocity-parsers                            | 2.1.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jackson-JAXRS-base                           | 2.9.8            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Weld Core                                    | 2.4.8.Final      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache XBean :: ASM 5<br>shaded (repackaged) | 4.4              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Javax Persistence API 2.0                    | 2.0.5            | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| HK2 API module                               | 2.5.0-b30        | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| javax.inject:1 as OSGi bundle                | 2.6.0            | Eclipse Public License 2.0                      | DYNAMICALLY_LINKED |
| Metrics Integration for Jersey 2.x           | 3.1.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| leveldb-api                                  | 0.6              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| XmlSchema Core                               | 2.2.4            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| JSch   | 0.1.54           | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache Hadoop Annotations                    | 2.9.2            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| parso  | 2.0.11           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google APIs Client Library for<br>Java       | v1.28.0          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| XMP Library for Java                         | 5.1.3            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| JCIP Annotations under<br>Apache License     | 1.0-1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Commons Compiler                             | 2.7.8            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| reflectasm                                   | 1.07             | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache POI: OOXML-schemas                    | 4.1.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |

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| leveldbjni   | 1.8                    | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache Tika plugin for Ogg,<br>Vorbis and FLAC                       | 0.8                    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| cglib  | 2.2.1-v20090111        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| dagre-d3   | unknown                | MIT License                                     | DYNAMICALLY_LINKED |
| Apache log4j   | 1.2.17                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Eclipse Jetty  | 9.4.18.v20190429       | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons<br>Configuration                                      | 1.1                    | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spark Project Sketch   | 2.0.0                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Woodstox   | 5.0.3                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache SIS metadata  | 1                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Units of Measurement API   | 1                      | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Jetty: Java based HTTP/1.x,<br>HTTP/2, Servlet, WebSocket<br>Server  | jetty-9.4.18.v20190429 | Apache License 2.0                              | STATICALLY_LINKED  |
| Jetty :: Websocket ::<br>javax.websocket :: Client<br>Implementation | 9.4.18.v20190429       | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Lucene  | 4.10.4                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jetty-util   | 6.1.26                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| json4s-core  | 3.2.11                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache SIS features  | 1                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Lombok Annotations   | 1.18.12                | MIT License                                     | DYNAMICALLY_LINKED |
| jackson-core   | 2.9.8                  | Apache License 2.0                              | DYNAMICALLY_LINKED |
| reflectasm   | 1.09                   | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Lucene Queries   | 4.10.4                 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Websocket :: Common   | 9.4.18.v20190429       | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Modernizr  | unknown                | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Java Servlet API   | 2.1                    | Common Development and Distribution License 1.0 | DYNAMICALLY_LINKED |

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|---|------------------|---|--------------------|
| JLine - Java Console input<br>Library         | 0.9.94           | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache ZooKeeper                              | 3.4.6            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| EclipseLink Moxy                              | 2.6.1-RC1        | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| javax.xml.soap API                            | 1.4.0            | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Apache Parquet Jackson                        | 1.7.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jQuery  | 1.11.1           | MIT License                                     | DYNAMICALLY_LINKED |
| Apache Commons BeanUtils                      | 1.8.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ApacheDS Protocol Kerberos<br>Codec           | 2.0.0-M15        | Apache License 2.0                              | DYNAMICALLY_LINKED |
| minlog  | 1.2              | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| jersey-container-servlet-core                 | 2.25.1           | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| Jetty :: Infinispan Session<br>Manager Common | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ANTLR   | 4.7.1            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| chill   | 0.8.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| objenesis                                     | 1.2              | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Curator Recipes                               | 2.7.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Ning-compress-LZF                             | 1.0.3            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Lucene codecs                                 | 4.10.4           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Parquet Jackson                               | 1.6.0rc6         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| spark-avro                                    | 4.0.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache SIS referencing                        | 1                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| stream-lib                                    | 2.7.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| hive-jdbc                                     | 1.1.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| OpenCensus                                    | 0.19.2           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| sshj  | 0.27.0           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Jetty :: Utility Servlets and Filters         | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Log4j SLF4J 1.8+<br>Binding            | 2.11.2           | Apache License 2.0                              | DYNAMICALLY_LINKED |

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|--|-------------------|---|--------------------|
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| AutoValue Annotations                        | 1.7rc1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache FontBox                               | 2.0.17            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Directory LDAP API<br>Utilities       | 1.0.0-M20         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-module-scala                         | 2.6.5             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| cz.o2.proxima:proxima-direct-c<br>ore        | 0.3.0-rc2         | Apache License 2.0                              | DYNAMICALLY_LINKED |
| HawtJNI Runtime                              | 1.9               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Commons CLI                           | 1.2               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| ASM  | 7                 | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| OAuth 2.0 SDK with OpenID Connect extensions | 5.64.4            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Parquet Column                               | 1.6.0rc4          | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Parquet Common                        | 1.7.0             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Go programming language                      | 20190428-snapshot | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| jersey-connectors-apache                     | 2.25.1            | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| pegdown                                      | 1.6.0             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Enunciate - Core Annotations                 | 2.12.1            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Spark Project SQL                            | 2.0.0             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jackson-jaxrs-json-provider                  | 2.8.4             | Apache License 2.0                              | DYNAMICALLY_LINKED |
| hadoop-common                                | 2.10.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| beanvalidation-api                           | 1.1.0.Final       | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Google Cloud Core HTTP                       | 1.74.0            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Lucene                                | 7.4.0             | Apache License 2.0                              | SOURCE_CODE        |
| msg-simple                                   | 1.1               | Apache License 2.0                              | DYNAMICALLY_LINKED |
| jQuery                                       | Unknown           | MIT License                                     | DYNAMICALLY_LINKED |
| GAX (Google Api eXtensions)                  | 0.61.0            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| gcsio.jar                                    | 1.9.17            | Apache License 2.0                              | DYNAMICALLY_LINKED |
| parboiled                                    | 1.1.7             | Apache License 2.0                              | DYNAMICALLY_LINKED |

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| jackson-annotations                      | jackson-annotations-2.10.1 | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Maven Wagon HTTP Provider                | 3.1.0                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Infinispan Embedded Query                | 7.0.1.Final                | Apache License 2.0                              | DYNAMICALLY_LINKED |
| D3.js                                    | 2.10.3                     | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
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| EclipseLink JPA                          | 2.6.0                      | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
| Java UnRar                               | 4.0.0                      | unRAR License                                   | DYNAMICALLY_LINKED |
| Java API for Processing JSON<br>(JSON-P) | 1.0.4                      | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
| scala-compiler                           | 2.11.0                     | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
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| Jackson-JAXRS-base                       | 2.8.4                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| EclipseLink                              | 2.6.0-RC2                  | Eclipse Public License 1.0                      | DYNAMICALLY_LINKED |
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| Protocol Buffer Java Util<br>Package     | 3.7.1                      | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| empty                                    | 1.0.0                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Jetty :: ALPN Server                     | 9.4.17.v20190418           | Apache License 2.0                              | DYNAMICALLY_LINKED |
| Apache Hadoop HDFS Client                | 2.9.2                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
| sslext                                   | 1.2-0                      | Apache License 1.1                              | DYNAMICALLY_LINKED |
| hive-service                             | 1.1.0                      | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| jersey-container-servlet                                    | 2.25.1           | Common Development and Distribution License 1.1 | DYNAMICALLY_LINKED |
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| dom4j: flexible XML framework for Java                      | 1.1              | dom4j License (BSD 2.0 +)                       | DYNAMICALLY_LINKED |
| Jetty :: HTTP2 :: HPACK                                     | 9.4.18.v20190429 | Apache License 2.0                              | DYNAMICALLY_LINKED |
| D3.js   | unknown          | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| kryo  | 3.0.3            | BSD 3-clause "New" or<br>"Revised" License      | DYNAMICALLY_LINKED |
| Apache SIS common storage                                   | 1                | Apache License 2.0                              | DYNAMICALLY_LINKED |
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| Jetty :: ALPN :: API   | 1.1.3.v20160715                               | Apache License 2.0                                  | DYNAMICALLY_LINKED |
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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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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

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- 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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msg-simple 1.1

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Version 3, 29 June 2007

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jcodings 1.0.17

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