

Oracle® Financial Services Analytical Applications Modern Risk and Finance (MRF)

Licensing Information User Manual



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Document Control MRF LIUM

The following table describes document control of this guide.

Table Document Control

Version Number	Revision Date	Change Log
18.0	July 2025	Updated the third-party information for Oracle Financial Services Liquidity Risk Solution Pack as part of the 8.1.2.7.0 release.
17.0	May 2025	Updated the third-party information for Oracle Insurance Accounting Analyzer Pack as part of the 8.1.2.8.0 release.
16.0	January 2025	Added information for January 2025 CPU .
15.0	December 2024	- Added the pack information for Oracle Financial Services Capital Adequacy Application Pack - Added new regulatory products: – Oracle Financial Services Regulatory Reporting for US Federal Reserve – Oracle Financial Services Regulatory Reporting for US Federal Reserve Lombard Risk Integration Pack – Oracle Financial Services Regulatory Reporting with AgileREPORTER - Restructured the sections for better readability: Modern Risk and Finance Banking On-Prem Applications and Modern Risk and Finance Insurance On-Prem Applications - Added the latest release number for each application pack in sections Modern Risk and Finance Banking On-Prem Applications and Modern Risk and Finance Insurance On-Prem Applications.
14.0	November 2024	Added new products; Oracle Financial Services Stress Testing and Scenario Analytics , Oracle Insurance Accounting Analyzer Extension Pack , Oracle Financial Services Hedge Management and IFRS Valuations , Oracle Financial Services Profitability Management Pack , Oracle Financial Services Cash Flow Engine and Oracle Financial Services Price Creation and Discovery . Corrected all products on O/S and removing AIX as Release v8.1.0.0.0 does not support AIX. Corrected the Third Party Libraries.
13.0	July 2024	Added information for July 2024 CPU.

Table (Cont.) Document Control

Version Number	Revision Date	Change Log
12.0	January 2024	Added information for January 2024 CPU.
11.0	July 2023	Added information for July 2023 CPU.
10.0	April 2023	Added information for Oracle JET.
9.0	September 2022	Added the entry for Oracle Financial Services Credit Risk Analytics Pack .
8.0	August 2022	Added the entry for Oracle Financial Services Liquidity Risk Solution Pack .
7.0	June 2022	Added the entry for OFSA AAI 8.1.2.1.0 ML Library upgrades.
6.0	May 2022	Added the entry for Oracle Financial Services Capital Adequacy Application Pack .
5.0	April 2022	Added the entries for Oracle Financial Services Regulatory Reporting for European Banking Authority , Oracle Insurance Loss Modeller Application Pack , , and Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions .
4.0	February 2022	Added the entries for Oracle Financial Services Market Risk Measurement and Management Application Pack and Oracle Financial Services Performance Analytics Applications Pack .
3.0	January 2022	Added the entries for Oracle Financial Services Asset Liability Management Application Pack , Oracle Financial Services Profitability Management Pack , Oracle Financial Services Funds Transfer Pricing Pack , Oracle Financial Services Balance Sheet Planning Pack , Oracle Financial Services Customer Analytics Applications Pack , and Oracle Insurance Accounting Analyzer Pack .
2.0	December 2021	Added the entries for Oracle Insurance Loss Modeller Application Pack , Oracle Insurance Data Foundation Pack , and Oracle Financial Services Data Foundation Pack .
1.0	December 2021	This is the first release of the OFSAA LIUM v8.1.2.0.0

1

Modern Risk and Finance Banking On-Prem Applications

This chapter includes the following product applications:

Topics:

- [Product Family – Advanced Analytical Applications Infrastructure](#)
- [Product Family - Accounting Standards](#)
- [Product Family - Customer Insight](#)
- [Product Family - Data Management](#)
- [Product Family - Enterprise Performance Management](#)
- [Product Family - Enterprise Risk Management](#)
- [Product Family - Regulatory Compliance](#)

Product Family – Advanced Analytical Applications Infrastructure

This chapter includes licensing information for the following products:

Topics:

- [Oracle Financial Services Advanced Analytical Applications Infrastructure and Oracle Financial Services Analytical Application Infrastructure Extension Pack](#)
- [Oracle Financial Services Model Management and Governance](#)

Oracle Financial Services Advanced Analytical Applications Infrastructure and Oracle Financial Services Analytical Application Infrastructure Extension Pack

This section includes licensing information for OFSAAI and OFS AAIEP.

Table 1-1 Table 1: Licensing Information for OFS AAI and OFS AAIEP

Products	Licensing Description
Each Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAAI) application pack includes the following products: - Analytical Applications Infrastructure - Big Data Processing - Enterprise Modeling - Inline Processing Engine Each Oracle Financial Services Analytical Application Infrastructure Extension Pack includes the following products: - Analytical Applications Infrastructure - Extension Pack	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Application Server - WebLogic - WebSphere - Apache Tomcat - Oracle Stack Libraries used in the application pack - None - Third-party software tools used in the application pack - Apache 2.0 - accessors-smart - activemq-client - Apache Commons DBCP - Apache Santuario XMLSecurity for Java - batik-transcoder - Commons BCEL - Commons Codec - Commons Collections - Commons Compress - Commons CSV - Commons FileUpload - Commons IO - Commons Lang - Commons Logging - Commons Pool - Commons Text - curvesapi - D3 - EclipseLink - fop-core - FreeMarker - Gauva - GSON - httpcore5 - httpcore5-h2 - httpclient5 - Jackson - Jackson Annotations - Jackson Core - Jackson Databind - jackson-jaxrs-base - jackson-jaxrs-json-provider

Table 1-1 (Cont.) Table 1: Licensing Information for OFS AAI and OFS AAIEP

Products	Licensing Description
	* jackson-module-jaxb-annotations * Javassist * jjwt-api * JSch * json-smart * json-path * kafka-clients * log4j-api * log4j-web * log4j-core * metrics-core * Moment-Timezone * provide-core * RequiresJS * react-router-dom * Saxon-HE * slf4j-api * slf4j-simple * Spring Framework * spring-integration-kafka * Mina SSHD-common * Mina sshd-core * Mina SSHD-sftp * Underscore.js * Xalan Java * Xerces2 Java * XMLBeans * xmlgraphics-commons * XML Resolver * XML Security for Java – MIT * jQuery * jQuery UI * sizzle – 2-Clause BSD * stax2-api – 3-Clause BSD * Enterprise Security API (ESAPI) * OWASP Java Encoder Project

Oracle Financial Services Model Management and Governance

This section includes licensing information for OFSMMG.

Table 1-2 Table 2: Licensing Information for OFS MMG

Products	Licensing Description
Each Oracle Financial Services Model Management and Governance (OFS MMG) application includes the following products: • Oracle Financial Services Analytical Applications Infrastructure • Oracle Financial Services Model Management and Governance	• Prerequisites – Operating System * Oracle Linux / Red Hat Enterprise Linux (x86-64) * Oracle Solaris(SPARC) – Java Runtime Environment * Oracle Linux / Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat – Oracle Labs Data Studio • Oracle Stack Libraries used in the application pack – None • Third party software tools used in the application pack – commons-compress – hadoop-client – hadoop-mapreduce-client-jobclient – hadoop-mapreduce-client-common – hadoop-mapreduce-client-core – hadoop-yarn-client – hadoop-yarn-common – hadoop-hdfs-client – hadoop-yarn-api – hadoop-common – hadoop-auth – hadoop-annotations – tomcat-embed-core – tomcat-embed-core – scala-library – xmlsec • Third party software tools used in Oracle Labs Data Studio – ACE Code Editor for the Web – Commons IO – Commons Lang – commons-configuration – D3 – JavaScript Extension Toolkit (JET) – Kubernetes & OpenShift Java Client – Liquibase – Log4j – STOMP.js – Simple Logging Facade for Java (SLF4J) – SockJS client – Spring Boot – Spring Retry – Springfox

Table 1-2 (Cont.) Table 2: Licensing Information for OFS MMG

Products	Licensing Description
	– Thrift – Zeppelin – Bluebird – commonmark-java – dagre – fetch – fuse.js – guava – jQuery – jackson-databind – jackson-dataformat-yaml – jackson-datatype-jsr310 – jackson-module-afterburner – jackson-module-parameter-names – lodash version – mapbox-gl-js – pip – py4j – swagger-ui – spring-boot-autoconfigure – spring-core – tomcat-embed-websocket – three.js – xmlsec-

Product Family - Accounting Standards

This chapter includes licensing information for the following products:

Topics:

- [Oracle Financial Services Hedge Management and IFRS Valuations](#)
- [Oracle Financial Services Loan Loss Forecasting and Provisioning](#)

Oracle Financial Services Hedge Management and IFRS Valuations

This section includes the licensing information for OFS HM.

Table 1-3 Table 3: Licensing Information for OFS HM

Products	Licensing Description
Each Oracle Financial Services Hedge Management and IFRS Valuations (OFS HM) application includes the following product: Oracle Financial Services Hedge Management and IFRS Valuations	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Financial Services Loan Loss Forecasting and Provisioning

This section includes the licensing information for OFS LLFP.

Table 1-4 Table 4: Licensing Information for OFS LLFP

Products	Licensing Description
Each Oracle Financial Services Loan Loss Forecasting and Provisioning (OFS LLFP) application includes the following product: - Oracle Financial Services Loan Loss Forecasting and Provisioning - Oracle Financial Services Model Management and Governance (OFS MMG)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack (Applies to OFS MMG if being used with OFS LLFP) - None

Product Family - Customer Insight

This chapter includes licensing information for the Oracle Financial Services Customer Insight products.

Topics:

- [Oracle Financial Services Performance Analytics Applications Pack](#)
- [Oracle Financial Services Price Creation and Discovery](#)
- [Oracle Financial Services Customer Analytics Applications Pack](#)

Oracle Financial Services Performance Analytics Applications Pack

This section includes licensing information for OFS PA.

Table 1-5 Table 5: Licensing Information for OFS PA

Products	Licensing Description
Each Oracle Financial Services Performance Analytics (OFS PA) application pack includes the following products: • Oracle Financial Services Institutional Performance Analytics (OFS IPA) • Oracle Financial Services Retail Performance Analytics (OFS RPA) • Oracle Financial Services Enterprise Financial Performance Analytics (OFS EFPA)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Price Creation and Discovery

This section includes licensing information for OFS PCD.

Table 1-6 Table 6: Licensing Information for OFS PCD

Products	Licensing Description
Each Oracle Financial Services Price Creation and Discovery (OFS PCD) application pack includes the following products: • Oracle Financial Services Price Creation and Discovery (OFS PCD)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Customer Analytics Applications Pack

This section includes licensing information for OFS CA.

Table 1-7 Table 7: Licensing Information for OFS CA

Products	Licensing Description
Each Oracle Financial Services Customer Analytics (OFS CA) application pack includes the following product: Oracle Financial Services Retail Customer Analytics (OFS CA)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Desktop Requirements - Directory Services - Apex 19.2 - ORDS 19.4.6.142.1859 - Third party software tools used in the Application Pack - None

Product Family - Data Management

This section includes licensing information for the Oracle Financial Services Data Management related products.

Topics:

- [Oracle Financial Services Data Integration Hub Pack](#)
- [Oracle Financial Services Data Foundation Pack](#)

Oracle Financial Services Data Integration Hub Pack

This section includes licensing information for OFS DIH.

Table 1-8 Table 8: Licensing Information for OFS DIH

Products	Licensing Description
Each Oracle Financial Services Data Integration Hub Pack (OFS DIH) application pack includes the following products: • Oracle Financial Services Data Integration Hub Foundation Pack • Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Data Relationship Management • Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle FLEXCUBE • Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting Hub • Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Banking Base • Oracle Financial Services Data Foundation Integration With Fusion Accounting Hub Cloud • Oracle Financial Services Data Integration With Unity	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Oracle Data Integrator – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat – Desktop Requirements – Directory Services • Third party software tools used in the Application Pack – None

Oracle Financial Services Data Foundation Pack

This section includes licensing information for OFS DF.

Table 1-9 Table 9: Licensing Information for OFS DF

Products	Licensing Description
Each Oracle Financial Services Data Foundation (OFS DF) application pack includes the following products: • Oracle Financial Services Data Foundation (OFS DF)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Product Family - Enterprise Performance Management

This chapter includes licensing information for the following products:

Topics:

- [Oracle Financial Services Asset Liability Management Application Pack](#)
- [Oracle Financial Services Balance Sheet Planning Pack](#)
- [Oracle Financial Services Cash Flow Engine](#)
- [Oracle Financial Services Funds Transfer Pricing Pack](#)
- [Oracle Financial Services Profitability Management Pack](#)

Oracle Financial Services Asset Liability Management Application Pack

This section includes the licensing information for OFS ALM.

Table 1-10 Table 10: Licensing Information for OFS ALM

Products	Licensing Description
Each Oracle Financial Services Asset and Liability Management (OFS ALM) application pack includes the following products: • Oracle Financial Services Asset Liability Management (OFS ALM) • Oracle Financial Services Asset Liability Management and Funds Transfer Pricing Analytics (OFS ALMBI)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Balance Sheet Planning Pack

This section includes the licensing information for OFS BSP.

Table 1-11 Table 11: Licensing Information for OFS BSP

Products	Licensing Description
Each Oracle Financial Services Balance Sheet Planning (OFS BSP) application pack includes the following product: Oracle Financial Services Balance Sheet Planning (OFS BSP)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - JExcel

Oracle Financial Services Cash Flow Engine

This section includes the licensing information for OFS CFE.

Table 1-12 Table 12: Licensing Information for OFS CFE

Products	Licensing Description
Each Oracle Financial Services Cash Flow Engine (OFS CFE) application pack includes the following product: Oracle Financial Services Cash Flow Engine (OFS CFE)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Financial Services Funds Transfer Pricing Pack

This section includes the licensing information for OFS FTP.

Table 1-13 Table 13: Licensing Information for OFS FTP

Products	Licensing Description
Each Oracle Financial Services Funds Transfer Pricing (OFS FTP) pack includes the following products: Oracle Financial Services Funds Transfer Pricing (OFS FTP)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Financial Services Profitability Management Pack

This section includes the licensing information for OFS PFT.

Table 1-14 Table 14: Licensing Information for OFS PFT

Products	Licensing Description
Each Oracle Financial Services Profitability Management (OFS PFT) pack includes the following products: Oracle Financial Services Profitability Management (OFS PFT)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Product Family - Enterprise Risk Management

This chapter includes licensing information for the following products:

Topics:

- [Oracle Financial Services Credit Risk Analytics Pack](#)

- [Oracle Financial Services Market Risk Measurement and Management Application Pack](#)
- [Oracle Financial Services Liquidity Risk Solution Pack](#)
- [Oracle Financial Services Stress Testing and Scenario Analytics](#)

Oracle Financial Services Credit Risk Analytics Pack

This section includes the licensing information for OFS CRA.

Table 1-15 Table 15: Licensing Information for OFS CRA

Products	Licensing Description
Each Oracle Financial Services Credit Risk Analytical (OFS CRA) Application includes the following products: • Oracle Financial Services Credit Risk Analytics	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Market Risk Measurement and Management Application Pack

This section includes the licensing information for OFS MRMM.

Table 1-16 Table 16: Licensing Information for OFS MRMM

Products	Licensing Description
Each Oracle Financial Services Market Risk Measurement and Management (OFS MRMM) applications pack includes the following product: • Oracle Financial Services Market Risk Measurement and Management	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – CAS

Oracle Financial Services Liquidity Risk Solution Pack

This section includes the licensing information for OFS LRS.

Table 1-17 Table 17: Licensing Information for OFS LRS

Products	Licensing Description
Each Oracle Financial Services Liquidity Risk Solution (OFS LRS) application pack includes the following products: • Oracle Financial Services Liquidity Risk Measurement and Management (OFS LRMM) • Oracle Financial Services Liquidity Risk Regulatory Calculations for US Federal Reserve (OFS LRRCUSFR) • Oracle Financial Services Liquidity Risk Regulatory Calculations for Reserve Bank of India (OFS LRRCRBI) • Oracle Financial Services Liquidity Risk Regulatory Calculations for European Banking Authority (OFS LRRCBA) • Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank of Thailand (OFS LRRCBOT) • Oracle Financial Services Liquidity Risk Regulatory Calculations for Bank Negara Malaysia (OFS LRRCBNM) • Oracle Financial Services Liquidity Risk Regulatory Calculations for Monetary Authority of Singapore (OFS LRRCMAS) • Oracle Financial Services Liquidity Risk Regulatory Calculations for Hong Kong Monetary Authority (OFS LRCHKMA) • Oracle Financial Services Deposit Insurance Calculations for Liquidity Risk Management (OFS DICLRM)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – JSpreadsheet

Oracle Financial Services Stress Testing and Scenario Analytics

This section includes the licensing information for OFS STSA.

Table 1-18 Table 18: Licensing Information for OFS STSA

Products	Licensing Description
Each Oracle Financial Service Stress Testing and Scenario Analytics (OFS STSA) Application includes the following products: • Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) • Oracle Financial Service Stress Testing and Scenario Analytics • Oracle Financial Services Model Management and Governance	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Open Metadata – OAS – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – common – Commons IO – HikariCP – jjwt-jackson – jjwt-impl – jjwt-api – JSON in Java – liquibase-core – Lombok – openmetadata-shaded-deps – openmetadata-java-client – openmetadata-spec – poi-ooxml-lite – poi-ooxml – thymeleaf-extras-springsecurity6

Product Family - Regulatory Compliance

This chapter includes licensing information for the following products:

Topics:

- [Oracle Financial Services Capital Adequacy Application Pack](#)
- [Oracle Financial Services Data Governance for North America Regulatory Reporting](#)
- [Oracle Financial Services Data Governance for European Central Reporting](#)
- [Oracle Financial Services Regulatory Reporting with AgileREPORTER](#)
- [Oracle Financial Services Regulatory Reporting for US Federal Reserve](#)
- [Oracle Financial Services Regulatory Reporting for US Federal Reserve Lombard Risk Integration Pack](#)
- [Oracle Financial Services Regulatory Reporting for European Banking Authority](#)

- [Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions](#)
- [Oracle Financial Services Regulatory Reporting for Office of the Superintendent of Financial Institutions Canada Applications Pack](#)
- [Oracle Financial Services Regulatory Reporting for European Banking Authority](#)
- [Oracle Financial Services Regulatory Reporting For Bank of England](#)

Oracle Financial Services Capital Adequacy Application Pack

This section includes the licensing information for OFS CAP.

Table 1-19 Table 19: Licensing Information for OFS CAP

Products	Licensing Description
Each Oracle Financial Services Capital Adequacy (OFS CAP PACK) pack includes the following products: • Oracle Financial Services Basel Regulatory Capital Basic • Oracle Financial Services Basel Regulatory Capital Internal Ratings Based Approach • Oracle Financial Services Basel Regulatory Capital Analytics • Oracle Financial Services Economic Capital Advanced	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Data Governance for North America Regulatory Reporting

This section includes licensing information for OFS DGNARR.

Table 1-20 Table 20: Licensing Information for OFS DGNARR

Products	Licensing Description
Each Oracle Financial Services Data Governance for North America Regulatory Reporting (OFS DGNARR) includes the following products: Oracle Financial Services Data Governance for North America Regulatory Reporting	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server - WebLogic - WebSphere - Apache Tomcat - Desktop Requirements - Directory Services - OBIEE or OAS - Third party software tools used in the Application Pack - None

Oracle Financial Services Data Governance for European Central Reporting

This section includes licensing information for OFS DGS EBA.

Table 1-21 Table 21: Licensing Information for OFS DGS EBA

Products	Licensing Description
Each Oracle Financial Services Data Governance for European Central Reporting (OFS DGS EBA) includes the following products: Oracle Financial Services Data Governance for European Central Reporting	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server - WebLogic - WebSphere - Apache Tomcat - Desktop Requirements - Directory Services - OBIEE or OAS - Third party software tools used in the Application Pack - None

Oracle Financial Services Regulatory Reporting with AgileREPORTER

This section includes licensing information for OFS AgileREPORTER.

Table 1-22 Table 22: Licensing Information for OFS AgileREPORTER

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting with AgileREPORTER (OFS AgileREPORTER) application pack includes the following product: Oracle Financial Services Regulatory Reporting with AgileREPORTER	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server - WebLogic - WebSphere - Apache Tomcat - Third party software tools used in the Application Pack - Vermeg

Oracle Financial Services Regulatory Reporting for US Federal Reserve

This section includes licensing information for OFS REG REP US FED.

Table 1-23 Table 23: Licensing Information for OFS REG REP US FED

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for US Federal Reserve (OFS AGILE RP US FED) application pack includes the following product: Oracle Financial Services Regulatory Reporting for US Federal Reserve Application	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server - WebLogic - WebSphere - Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Financial Services Regulatory Reporting for US Federal Reserve Lombard Risk Integration Pack

This section includes licensing information for OFS REG REP USFED.

Table 1-24 Table 24: Licensing Information for OFS REG REP US FED

Products	Licensing Description
Oracle Financial Services Regulatory Reporting for US Federal Reserve Lombard Risk (OFS REG REP USFED) Integration Pack	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Regulatory Reporting for European Banking Authority

This section includes licensing information for OFS AGILE RP EBA.

Table 1-25 Table 25: Licensing Information for OFS AGILE RP EBA

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for European Banking Authority (OFS AGILE RP EBA) application pack includes the following product: • Oracle Financial Services Regulatory Reporting for European Banking Authority	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – None

Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions

This section includes licensing information for OFS REG REP APME.

Table 1-26 Table 26: Licensing Information for OFS REG REP APME

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions (OFS REG REP APME) application pack includes the following product: Oracle Financial Services Regulatory Reporting Data Sets and Governance for Asia Pacific and Middle East Jurisdictions	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server - WebLogic - WebSphere - Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Financial Services Regulatory Reporting for Office of the Superintendent of Financial Institutions Canada Applications Pack

This section includes licensing information for OFS REG REP OSFI.

Table 1-27 Table 27: Licensing Information for OFS REG REP OSFI

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting for Office of the Superintendent of Financial Institutions Canada Applications Pack (OFS REG REP OSFI) application pack includes the following product: Oracle Financial Services Regulatory Reporting for Office of the Superintendent of Financial Institutions Canada Applications Pack	- Prerequisites - Operating System - Oracle Linux or Red Hat Enterprise Linux (x86-64) - Oracle Solaris (SPARC) - Java Runtime Environment - Oracle Linux or Red Hat Enterprise Linux - Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server - WebLogic - WebSphere - Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Financial Services Regulatory Reporting For Bank of England

This section includes licensing information for OFS REG REP BOE.

Table 1-28 Table 28: Licensing Information for OFS REG REP BOE

Products	Licensing Description
Each Oracle Financial Services Regulatory Reporting For Bank of England (OFS REG REP BOE) application pack includes the following product: Oracle Financial Services Regulatory Reporting for Bank of England	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

2

Modern Risk and Finance Insurance On-Prem Applications

This chapter includes the following product applications:

Topics:

- [Oracle Insurance Accounting Analyzer Pack](#)
- [Oracle Insurance Accounting Analyzer Extension Pack](#)
- [Oracle Insurance Loss Modeller Application Pack](#)
- [Oracle Insurance Performance Insight Application Pack](#)
- [Oracle Insurance Planner Pack](#)
- [Oracle Insurance Data Foundation Pack](#)
- [Oracle Insurance Allocation Manager for Enterprise Profitability](#)

Oracle Insurance Accounting Analyzer Pack

This section includes licensing information for OFS IAA.

Table 2-1 Table 29: Licensing Information for OFS IAA

Products	Licensing Description
Each Oracle Insurance Accounting Analyzer (OFS IAA) Pack application pack includes the following products: • Oracle Insurance Accounting Analyzer (OIAA)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • OBIEE or OAS • Third party software tools used in the Application Pack – JSpreadsheet – jSuites

Oracle Insurance Accounting Analyzer Extension Pack

This section includes licensing information for OFS IAA EP.

Table 2-2 Table 30: Licensing Information for OFS IAA EP

Products	Licensing Description
Each Oracle Insurance Accounting Analyzer Extension (OFS IAA EP) Pack includes the following products: • Oracle Insurance Accounting Analyzer (OIAA) • Oracle Insurance Accounting Analyzer Extension Pack (OIAAEP)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • OBIEE or OAS • Third party software tools used in the Application Pack – None

Oracle Insurance Loss Modeller Application Pack

This section includes the licensing information for OILM.

Table 2-3 Table 31: Licensing Information for OILM

Products	Licensing Description
Each Oracle Insurance Loss Modeller (OILM) application pack includes the following products: • Oracle Insurance Loss Modeller (OILM)	• Prerequisites – Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) – Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris – Oracle Database Server and Client – Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat • Third party software tools used in the Application Pack – Jspreadsheet

Oracle Insurance Performance Insight Application Pack

This section includes licensing information for OIPI.

Table 2-4 Table 32: Licensing Information for OIPI

Products	Licensing Description
Each Oracle Insurance Performance Insight (OIPI) application pack includes the following products: Oracle Insurance Performance Insight (OIPI)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Insurance Planner Pack

This section includes licensing information for OIP.

Table 2-5 Table 33: Licensing Information for OIP

Products	Licensing Description
Each Oracle Insurance Planner (OIP) Pack application pack includes the following products: Oracle Insurance Planner (OIP)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Insurance Data Foundation Pack

This section includes the licensing information for OIDF.

Table 2-6 Table 34: Licensing Information for OIDF

Products	Licensing Description
Each Oracle Insurance Data Foundation (OIDF) application pack includes the following products: Oracle Insurance Data Foundation (OIDF)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

Oracle Insurance Allocation Manager for Enterprise Profitability

This section includes the licensing information for OFS PFT-I.

Table 2-7 Table 35: Licensing Information for PFT-I

Products	Licensing Description
Each Oracle Insurance Allocation Manager for Enterprise Profitability (PFT-I) pack includes the following products: Oracle Insurance Allocation Manager for Enterprise Profitability (PFT-I)	- Prerequisites - Operating System * Oracle Linux or Red Hat Enterprise Linux (x86-64) * Oracle Solaris (SPARC) - Java Runtime Environment * Oracle Linux or Red Hat Enterprise Linux * Oracle Solaris - Oracle Database Server and Client - Web Server/ Web Application Server * WebLogic * WebSphere * Apache Tomcat - Third party software tools used in the Application Pack - None

3

Third-Party Notices

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Commercial software products or components distributed in the OFSAA Modern Risk and Finance application packs are identified in the following table along with the applicable licensing information.

Table 3-1 Table 36: Commercial Software

Provider	Component(s)	Functionality	Licensing Information
Numerix LLC	CAS 4.1	Third party library of market risk models and methods	For a copy of the license, see Numerix LLC

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Table 3-2 Table 37: Open Source Software

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Apache Ant Apache FOP Apache POI cglib Commons BeanUtils Commons Codec Commons Collections Commons DBCP Commons FileUpload Commons IO Commons Compress Commons Lang Commons Logging Commons Pool Commons VFS FreeMarker Guava Hadoop Hive jackson-databind JWT joda-time Kafka Log4J Mousetrap POI Scala Spark sqoop Xerces2 Java XMLBeans XWork	Scripting Platform Platform Persistence Tier and Install	Copyright © 2019 The Apache Software Foundation. This product includes software developed by The Apache Software Foundation (http://www.apache.org/). Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .

Table 3-2 (Cont.) Table 37: Open Source Software

Provider	Component(s)	Functionality	Licensing Information
Cloudera	Cloudera Standard— Apache Hadoop CDH 5.13.x and 6.2.x Cloudera Manager Cloudera Hive Connectors	Contains the core elements of Hadoop that provide reliable, scalable distributed data processing of large data sets, as well as other enterprise-oriented components. These elements provide security, high availability, and integration with hardware and other software.	Copyright © 2019 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .
Mike Bostock	d3.js	JavaScript library for visualizing data with HTML, SVG, and CSS.	d3.js is licensed under the New BSD license. For a copy of the license, see the License text .
Fasterxml	Jackson	Data binding	Jackson is licensed under the Apache License, Version 2.0. Copyright © 2019 The Apache Software Foundation. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .
MetaStuff Ltd.	Dom4j	Open source library to work with XML, XPath and XSLT on the Java platform using the Java Collections Framework and with full support for DOM, SAX and JAXP.	Copyright © 2001-2005 MetaStuff, Ltd. All Rights Reserved. For a copy of the license, see MetaStuff, Ltd.

Table 3-2 (Cont.) Table 37: Open Source Software

Provider	Component(s)	Functionality	Licensing Information
Oracle	Oracle JET	Front end library for UI requirements.	Copyright (c) 2014, 2023 Oracle and/or its affiliates The Universal Permissive License (UPL), Version 1.0
fontawesome	Font Awesome	SVG, font, and CSS toolkit.	For a copy of the license, see FontAwesome
JS Foundation and other contributors	jQuery	JavaScript Library	jQuery is licensed under The MIT license. For a copy of the license, see the License text .
Paul Hodel	jExcel	jQuery plugin for embed a excel-like spreadsheet in your apps or website.	jExcel is licensed under The MIT license. For a copy of the license, see the License text .
Richard Heyes	RGraph	Creating Android Charts with HTML or Javascript.	RGraph is licensed under The MIT license. For a copy of the license, see the License text .
Dmitry Baranovskiy	Raphael.js	JavaScript Vector Library	Raphael.js is licensed under The MIT license. For a copy of the license see the License text .
Ryan Niemeyer	Knockout-postbox	MVVM Framework	Copyright © 2015 Ryan Niemeyer. For a copy of the license, see Ryan Niemeyer, Technology .
FasterXML LLC	stax2-api	Extension API for Stax	This source code is licensed under standard BSD license. For a copy of the license, see the License text .
OWASP Foundation	Enterprise Security API (ESAPI)	Open source, web application security control library designed to write lower-risk applications.	Licensed under the New BSD license. For a copy of the license, see the License text .

Table 3-2 (Cont.) Table 37: Open Source Software

Provider	Component(s)	Functionality	Licensing Information
Jeff Ichnowski	OWASP Java Encoder Project	Encoder class with no dependencies and little baggage enabling Java developers to defend against Cross-Site Scripting attacks.	Licensed under the New BSD license. For a copy of the license, see the License text .
Visigoth Software Society	FreeMarker	"template engine" used to generate text output based on templates.	Copyright © 2003 The Visigoth Software Society. All rights reserved. For a copy of the license, see Visigoth Software Society
Simon Bengtsson	jsPDF- AutoTable	Plugin of jsPDF to make tables in the jsPDF Library.	jsPDF- AutoTable is available under the Apache License, Version 2.0. Copyright (c) 2014 Simon Bengtsson For a copy of the license, see the License text .
James Hall	jsPDF	Library to generate PDFs in JavaScript.	jsPDF is licensed under The MIT license. Copyright (c) 2010-2017 James Hall For a copy of the license, see the License text .
NumFOCUS Foundation	MathJax	A JavaScript display engine for mathematics that works in all browsers.	MathJax is licensed under The MIT license. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 . For a copy of the license, see Apache License, Version 2.0 .
Anthony Tuininga	cx_Oracle	Python extension module that enables querying and updating of Oracle database	Licensed under the New BSD license. For a copy of the license, see the License text .
Fernando M. F. Nogueira, Guillaume Lemaitre, Dayvid Victor	imbalanced-learn	imbalanced-learn	Licensed under The MIT license. For a copy of the license see the License text .

Table 3-2 (Cont.) Table 37: Open Source Software

Provider	Component(s)	Functionality	Licensing Information
Matplotlib Development Team	matplotlib	Cross-platform, data visualization and graphical plotting library for Python and its numerical extension NumPy	For a copy of the license, see matplotlib .
NumPy Developers	NumPy	Provides standard trigonometric functions, functions for arithmetic operations, handling complex numbers	Licensed under the New BSD license. For a copy of the license, see the License text .
scikit-learn developers	scikit-learn	Library for machine learning in Python	For a copy of the license, see scikit-learn .
scipy.org	SciPy	Collection of mathematical algorithms and convenience functions built on the NumPy extension of Python	Licensed under the New BSD license. For a copy of the license, see the License text .
Michael Waskom	Seaborn	Library in Python predominantly used for making statistical graphics	Licensed under the New BSD license. For a copy of the license, see the License text .
Michael Bayer	SQLAlchemy	Library which supports the widest variety of database and architectural designs	Licensed under The MIT license. For a copy of the license see the License text .
Jonathan E. Taylor	statsmodels	Python module that provides classes and functions for the estimation of many different statistical models	Licensed under the New BSD license. For a copy of the license, see the License text .

4

Third-Party Licenses

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The UnixCrypt.java code ~Implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
modified April 2001 by Iris Van den Broeke, Daniel Deville.

The default JSP implementation is provided by the Glassfish JSP engine
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===
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batik-transcoder

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#02 org.apache.xmlgraphics:batik-awt-util:jar:
#03 org.apache.xmlgraphics:batik-bridge:jar:
#04 org.apache.xmlgraphics:batik-constants:jar:
#05 org.apache.xmlgraphics:batik-css:jar:
#06 org.apache.xmlgraphics:batik-dom:jar:
#07 org.apache.xmlgraphics:batik-ext:jar:
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#09 org.apache.xmlgraphics:batik-i18n:jar:
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#18 xml-apis:xml-apis:jar:
#19 xml-apis:xml-apis-ext:jar:
#20 commons-io:commons-io:jar:
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#02 com.fasterxml.jackson.core:jackson-annotations:jar:
#03 com.fasterxml.jackson.core:jackson-databind:jar:
#04 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:
#05 com.fasterxml.jackson.datatype:jackson-datatype-guava:jar:
#06 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:
#07 com.fasterxml.jackson.datatype:jackson-datatype-joda:jar:
#08 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:
#09 com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:jar:
#10 com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:jar:

#11 com.fasterxml.jackson.module:jackson-module-blackbird:jar:
#12 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:jar:
#13 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:
#14 com.fasterxml.classmate:jar:
#15 com.github.ben-manes.caffeine:caffeine:jar:
#16 com.google.code.findbugs:annotations:jar:
#17 com.google.code.findbugs:jsr305:jar:
#18 com.google.code.javaparser:javaparser:jar:
#19 com.google.errorprone:error_prone_annotations:jar:
#20 com.google.guava:failureaccess:jar:
#21 com.google.guava:guava:jar:
#22 com.google.guava:listenablefuture:jar:
#23 com.google.j2objc:j2objc-annotations:jar:
#24 commons-codec:commons-codec:jar:
#25 commons-io:commons-io:jar:
#26 commons-lang:commons-lang:jar:
#27 io.dropwizard.logback:logback-throttling-appender:jar:
#28 io.dropwizard.metrics:metrics-annotation:jar:
#29 io.dropwizard.metrics:metrics-core:jar:
#30 io.dropwizard.metrics:metrics-jersey2:jar:
#31 io.dropwizard.metrics:metrics-logback:jar:
#32 io.dropwizard:dropwizard-jackson:jar:
#33 io.dropwizard:dropwizard-jersey:jar:
#34 io.dropwizard:dropwizard-logging:jar:
#35 io.dropwizard:dropwizard-util:jar:
#36 io.dropwizard:dropwizard-validation:jar:
#37 jakarta.activation:jakarta.activation-api:jar:
#38 jakarta.annotation:jakarta.annotation-api:jar:
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#49 org.eclipse.jetty:jetty-io:jar:
#50 org.eclipse.jetty:jetty-util:jar:
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#52 org.glassfish.hk2:hk2-api:jar:
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#72 com.sun.codemodel:codemodel:jar:
#73 javax.json.bind:javax.json.bind-api:jar:

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Fourth party #39 jakarta.inject:jakarta.inject-api:jar:

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<https://github.com/eclipse-ee4j/injection-api> <https://github.com/eclipse-ee4j/injection-spec>
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The API repository

The TCK repository

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javaee-api (7.0)

License: Apache-2.0 AND W3C

JUnit (4.11)

License: Common Public License 1.0

Mockito (2.16.0)

Project: <http://site.mockito.org>

Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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ASM 7 (n/a)

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Source: <https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-commons~---kw,versionexpand>

JTHarness (5.0)

License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)

Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

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normalize.css (3.0.2)

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

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

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* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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* org.apache.tomcat:tomcat-juli

* org.apache.tomcat:tomcat-jsp-api

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* org.apache.tomcat:tomcat-jasper-el

* org.apache.tomcat:tomcat-api

* org.apache.tomcat:tomcat-util-scan

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- * org.ow2.asm:asm

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- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
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- * org.apache.tomcat:tomcat-jasper-el
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- * org.apache.tomcat:tomcat-util-scan
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<https://github.com/eclipse-ee4j/glassfish-ha-api>

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<https://github.com/eclipse-ee4j/glassfish-shoal>

<https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>

<https://github.com/eclipse-ee4j/glassfish-jsftemplating>

<https://github.com/eclipse-ee4j/glassfish-hk2-extra>

<https://github.com/eclipse-ee4j/glassfish-hk2>

<https://github.com/eclipse-ee4j/glassfish-fighterfish>

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Fourth party #55 thro #62 org.glassfish.jersey components

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Bootstrap v3.3.7

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JSR-166 Extension - JEP 266

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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Jackson Core

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Javassist

org.javassist:javassist

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io.jsonwebtoken.impl.io.Base64InputStream
io.jsonwebtoken.impl.io.Base64OutputStream
io.jsonwebtoken.impl.io.BaseNCodec
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#02 jackson-databind

#03 jackson-annotations

#04 jackson-core

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Top level component jjwt-impl

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JSch

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Top Level Component : jsch

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accessors-smart

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Dependency 2:

ASM

ASM: a very small and fast Java bytecode manipulation framework

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kafka-clients

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Top level component : kafka-clients

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#02 org.lz4:lz4-java:jar

#03 org.xerial.snappy:snappy-java:jar

#04 org.osgi:org.osgi.core:jar

#05 org.slf4j:slf4j-api:jar

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Fourth party #01 : com.github.luben:zstd-jni:jar

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* Alec Wysoker

* Performance and memory usage improvement

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Dependencies:

org.slf4j slf4j-api

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Fourth-Party Dependencies

org.apache.sshd:sshd-common

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moment-timezone

=====

Top level component : moment-timezone

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org.webjars.npm:moment [MIT license, available under top level license]

=====

openmetadata-shaded-deps

=====

Top level component - org.open-metadata:openmetadata-shaded-deps

(includes org.open-metadata:opensearch-deps)

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#00 org.opensearch.client:opensearch-rest-high-level-client:jar:

#00 org.opensearch.plugin:aggs-matrix-stats-client:jar:

#00 org.opensearch.plugin:lang-mustache-client:jar:

#00 org.opensearch.plugin:mapper-extras-client:jar:
#00 org.opensearch.plugin:parent-join-client:jar:
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#00 org.opensearch:opensearch-secure-sm:jar:
#00 org.opensearch:opensearch-x-content:jar:
#01 com.carrotsearch:hppc:jar:
#02 com.fasterxml.jackson.core:jackson-core:jar:
#03 com.fasterxml.jackson.dataformat:jackson-dataformat-cbor:jar:
#04 com.fasterxml.jackson.dataformat:jackson-dataformat-smile:jar:
#05 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:
#06 com.tdunning:t-digest:jar:
#07 joda-time:joda-time:jar:
#08 net.java.dev.jna:jna:jar:
#09 net.sf.jopt-simple:jopt-simple:jar:
#10 org.apache.logging.log4j:log4j-api:jar:
#11 org.apache.logging.log4j:log4j-jul:jar:
#12 org.apache.lucene:lucene-analysis-common:jar:
#13 org.apache.lucene:lucene-backward-codecs:jar:
#14 org.apache.lucene:lucene-core:jar:
#15 org.apache.lucene:lucene-grouping:jar:
#16 org.apache.lucene:lucene-highlighter:jar:
#17 org.apache.lucene:lucene-join:jar:
#18 org.apache.lucene:lucene-memory:jar:
#19 org.apache.lucene:lucene-misc:jar:
#20 org.apache.lucene:lucene-queries:jar:
#21 org.apache.lucene:lucene-queryparser:jar:
#22 org.apache.lucene:lucene-sandbox:jar:
#23 org.apache.lucene:lucene-spatial3d:jar:
#24 org.apache.lucene:lucene-spatial-extras:jar:
#25 org.apache.lucene:lucene-suggest:jar:

#26 org.hdrhistogram:HdrHistogram:jar:
#27 com.github.spullara.mustache.java:compiler:jar:
#28 org.apache.httpcomponents:httpasyncclient:jar:
#29 org.apache.httpcomponents:httpclient:jar:
#30 org.apache.httpcomponents:httpcore:jar:
#31 org.apache.httpcomponents:httpcore-nio:jar:
#32 commons-codec:commons-codec:jar:
#33 commons-logging:commons-logging:jar:

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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,

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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java

analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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#10 com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:jar:
#11 com.fasterxml.jackson.module:jackson-module-blackbird:jar:
#12 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:jar:
#13 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:

#14 com.fasterxml:classmate:jar:
#15 com.github.ben-manes.caffeine:caffeine:jar:
#16 com.google.code.findbugs:annotations:jar:
#17 com.google.code.findbugs:jsr305:jar:
#18 com.google.code.javaparser:javaparser:jar:
#19 com.google.errorprone:error_prone_annotations:jar:
#20 com.google.guava:failureaccess:jar:
#21 com.google.guava:guava:jar:
#22 com.google.guava:listenablefuture:jar:
#23 com.google.j2objc:j2objc-annotations:jar:
#24 commons-codec:commons-codec:jar:
#25 commons-io:commons-io:jar:
#26 commons-lang:commons-lang:jar:
#27 io.dropwizard.logback:logback-throttling-appender:jar:
#28 io.dropwizard.metrics:metrics-annotation:jar:
#29 io.dropwizard.metrics:metrics-core:jar:
#30 io.dropwizard.metrics:metrics-jersey2:jar:
#31 io.dropwizard.metrics:metrics-logback:jar:
#32 io.dropwizard:dropwizard-jackson:jar:
#33 io.dropwizard:dropwizard-jersey:jar:
#34 io.dropwizard:dropwizard-logging:jar:
#35 io.dropwizard:dropwizard-util:jar:
#36 io.dropwizard:dropwizard-validation:jar:
#37 jakarta.activation:jakarta.activation-api:jar:
#38 jakarta.annotation:jakarta.annotation-api:jar:
#39 jakarta.inject:jakarta.inject-api:jar:
#40 jakarta.json.bind:jakarta.json.bind-api:jar:
#41 jakarta.servlet:jakarta.servlet-api:jar:
#42 jakarta.validation:jakarta.validation-api:jar:
#43 jakarta.ws.rs:jakarta.ws.rs-api:jar:
#44 jakarta.xml.bind:jakarta.xml.bind-api:jar:
#45 javax.validation:validation-api:jar:
#46 joda-time:joda-time:jar:
#47 org.apache.commons:commons-lang3:jar:

#48 org.checkerframework:checker-qual:jar:
#49 org.eclipse.jetty:jetty-io:jar:
#50 org.eclipse.jetty:jetty-util:jar:
#51 org.glassfish.hk2.external:aopalliance-repackaged:jar:
#52 org.glassfish.hk2:hk2-api:jar:
#53 org.glassfish.hk2:hk2-locator:jar:
#54 org.glassfish.hk2:hk2-utils:jar:
#55 org.glassfish.hk2:osgi-resource-locator:jar:
#56 org.glassfish.jersey.containers:jersey-container-servlet:jar:
#57 org.glassfish.jersey.containers:jersey-container-servlet-core:jar:
#58 org.glassfish.jersey.core:jersey-client:jar:
#59 org.glassfish.jersey.core:jersey-common:jar:
#60 org.glassfish.jersey.core:jersey-server:jar:
#61 org.glassfish.jersey.ext:jersey-metainf-services:jar:
#62 org.glassfish.jersey.inject:jersey-hk2:jar:
#63 org.glassfish.jakarta.el:jar:
#64 org.hibernate.validator:hibernate-validator:jar:
#65 org.javassist:javassist:jar:
#66 org.jboss.logging:jboss-logging:jar:
#67 org.jsonschema2pojo:jsonschema2pojo-core:jar:
#68 org.projectlombok:lombok:jar:
#69 org.slf4j:jcl-over-slf4j:jar:
#70 org.slf4j:jul-to-slf4j:jar:
#71 org.slf4j:slf4j-api:jar:
#72 io.github.resilience4j:resilience4j-core:jar:
#73 io.github.resilience4j:resilience4j-retry:jar:
#74 javax.ws.rs:javax.ws.rs-api:jar:
#75 org.antlr:antlr4-runtime:jar:
#76 com.github.java-json-tools:btf:jar:
#77 com.github.java-json-tools:jackson-coreutils:jar:
#78 com.github.java-json-tools:jackson-coreutils-equivalence:jar:
#79 com.github.java-json-tools:json-patch:jar:
#80 com.github.java-json-tools:json-schema-core:jar:
#81 com.github.java-json-tools:json-schema-validator:jar:

#82 com.github.java-json-tools:msg-simple:jar:
#83 com.github.java-json-tools:uri-template:jar:
#84 com.github.scribejava:scribejava-apis:jar:
#85 com.github.scribejava:scribejava-core:jar:
#86 com.github.scribejava:scribejava-java8:jar:
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#89 com.google.auth:google-auth-library-oauth2-http:jar:
#90 com.google.auto.value:auto-value-annotations:jar:
#91 com.google.code.gson:gson:jar:
#92 com.google.http-client:google-http-client:jar:
#93 com.google.http-client:google-http-client-gson:jar:
#94 com.googlecode.libphonenumber:libphonenumber:jar:
#95 com.microsoft.azure:msal4j:jar:
#96 com.nimbusds:content-type:jar:
#97 com.nimbusds:lang-tag:jar:
#98 com.nimbusds:nimbus-jose-jwt:jar:
#99 com.nimbusds:oauth2-oidc-sdk:jar:
#100 com.squareup.okhttp3:okhttp:jar:
#101 com.squareup.okio:okio:jar:
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#108 io.grpc:grpc-context:jar:
#109 io.opencensus:opencensus-api:jar:
#110 io.opencensus:opencensus-contrib-http-util:jar:
#111 io.swagger.core.v3:swagger-annotations:jar:
#112 io.swagger.core.v3:swagger-core:jar:
#113 io.swagger.core.v3:swagger-models:jar:
#114 io.swagger.parser.v3:swagger-parser:jar:
#115 io.swagger.parser.v3:swagger-parser-core:jar:

#116 io.swagger.parser.v3:swagger-parser-safe-url-resolver:jar:
#117 io.swagger.parser.v3:swagger-parser-v2-converter:jar:
#118 io.swagger.parser.v3:swagger-parser-v3:jar:
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#120 io.swagger:swagger-compat-spec-parser:jar:
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#128 org.apache.httpcomponents:httpcore:jar:
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#134 org.mozilla:rhino:jar:
#135 org.openapitools:jackson-databind-nullable:jar:
#136 org.ow2.asm:asm:jar:
#137 org.yaml:snakeyaml:jar:
#138 com.sun.codemodel:codemodel:jar:
#139 javax.json.bind:javax.json.bind-api:jar:

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Fourth party #09, #10 com.fasterxml.jackson.jaxrs:jackson-jaxrs components

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Fourth party #28 thro #31 io.dropwizard.metrics components
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Fourth party #32 thro #36 io.dropwizard:dropwizard components
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Fourth party #37 jakarta.activation:jakarta.activation-api:jar:
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Fourth party #39 jakarta.inject:jakarta.inject-api:jar:

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<https://github.com/eclipse-ee4j/injection-api> <https://github.com/eclipse-ee4j/injection-spec>
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Fourth party #41 jakarta.servlet:jakarta.servlet-api:jar:

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The API repository

The TCK repository

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JUnit (4.11)

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Mockito (2.16.0)

Project: <http://site.mockito.org>

Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

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normalize.css (3.0.2)

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- * org.apache.tomcat:tomcat-el-api

- * org.apache.tomcat:tomcat-jasper-el

- * org.apache.tomcat:tomcat-api

- * org.apache.tomcat:tomcat-util-scan

- * org.apache.tomcat:tomcat-util

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* org.apache.tomcat:tomcat-el-api

* org.apache.tomcat:tomcat-jasper-el

* org.apache.tomcat:tomcat-api

* org.apache.tomcat:tomcat-util-scan

* org.apache.tomcat:tomcat-util

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<https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>

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javaee-api (7.0)

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#02 com.fasterxml.jackson.core:jackson-annotations:jar:

#03 com.fasterxml.jackson.core:jackson-databind:jar:

#04 com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:jar:

#05 com.fasterxml.jackson.datatype:jackson-datatype-guava:jar:

#06 com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:

#07 com.fasterxml.jackson.datatype:jackson-datatype-joda:jar:

#08 com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:

#09 com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:jar:
#10 com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:jar:
#11 com.fasterxml.jackson.module:jackson-module-blackbird:jar:
#12 com.fasterxml.jackson.module:jackson-module-jaxb-annotations:jar:
#13 com.fasterxml.jackson.module:jackson-module-parameter-names:jar:
#14 com.fasterxml.classmate:jar:
#15 com.github.ben-manes.caffeine:caffeine:jar:
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#27 io.dropwizard.logback:logback-throttling-appender:jar:
#28 io.dropwizard.metrics:metrics-annotation:jar:
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#43 jakarta.ws.rs:jakarta.ws.rs-api:jar:
#44 jakarta.xml.bind:jakarta.xml.bind-api:jar:
#45 javax.validation:validation-api:jar:
#46 joda-time:joda-time:jar:
#47 org.apache.commons:commons-lang3:jar:
#48 org.checkerframework:checker-qual:jar:
#49 org.eclipse.jetty:jetty-io:jar:
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#52 org.glassfish.hk2:hk2-api:jar:
#53 org.glassfish.hk2:hk2-locator:jar:
#54 org.glassfish.hk2:hk2-utils:jar:
#55 org.glassfish.hk2:osgi-resource-locator:jar:
#56 org.glassfish.jersey.containers:jersey-container-servlet:jar:
#57 org.glassfish.jersey.containers:jersey-container-servlet-core:jar:
#58 org.glassfish.jersey.core:jersey-client:jar:
#59 org.glassfish.jersey.core:jersey-common:jar:
#60 org.glassfish.jersey.core:jersey-server:jar:
#61 org.glassfish.jersey.ext:jersey-metainf-services:jar:
#62 org.glassfish.jersey.inject:jersey-hk2:jar:
#63 org.glassfish.jakarta.el:jar:
#64 org.hibernate.validator:hibernate-validator:jar:
#65 org.javassist:javassist:jar:
#66 org.jboss.logging:jboss-logging:jar:
#67 org.jsonschema2pojo:jsonschema2pojo-core:jar:
#68 org.projectlombok:lombok:jar:
#69 org.slf4j:jcl-over-slf4j:jar:
#70 org.slf4j:jul-to-slf4j:jar:
#71 org.slf4j:slf4j-api:jar:
#72 io.github.resilience4j:resilience4j-core:jar:
#73 io.github.resilience4j:resilience4j-retry:jar:
#74 javax.ws.rs:javax.ws.rs-api:jar:
#75 org.antlr:antlr4-runtime:jar:
#76 com.sun.codemodel:codemodel:jar:

#77 javax.json.bind:javax.json.bind-api:jar:

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Fourth party #41 jakarta.servlet:jakarta.servlet-api:jar:

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The specification repository

The API repository

The TCK repository

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Test dependencies:

TestNG - Apache License 2.0

JCommander - Apache License 2.0

SnakeYAML - Apache License 2.0

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javaee-api (7.0)

License: Apache-2.0 AND W3C

JUnit (4.11)

License: Common Public License 1.0

Mockito (2.16.0)

Project: <http://site.mockito.org>

Source: <https://github.com/mockito/mockito/releases/tag/v2.16.0>

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ASM 7 (n/a)

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Source: <https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-commons~~~~kw,versionexpand>

JTHarness (5.0)

License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)

Project: <https://wiki.openjdk.java.net/display/CodeTools/JT+Harness>

Source: <http://hg.openjdk.java.net/code-tools/jtharness/>

normalize.css (3.0.2)

License: MIT

SigTest (n/a)

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* JavaParser is dual licensed under the LGPL or the Apache license -- you may use it under whichever one you want. (The JavaParser source code contains a file with the text of the GPL, but it is not clear why, since JavaParser does not use the GPL.) See <https://github.com/typetools/stubparser>.

* Annotation Tools (<https://github.com/typetools/annotation-tools>) uses the MIT license.

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

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- * java.sun.security.ssl

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- * org.apache.tomcat:tomcat-jasper

- * org.apache.tomcat:tomcat-juli

- * org.apache.tomcat:tomcat-jsp-api

- * org.apache.tomcat:tomcat-el-api

- * org.apache.tomcat:tomcat-jasper-el

- * org.apache.tomcat:tomcat-api

* org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
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- * java.sun.security.ssl

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- * org.ow2.asm:asm-commons

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

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- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
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Fourth party #51 thro #54 org.glassfish.hk2 components

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<https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor>

<https://github.com/eclipse-ee4j/glassfish-shoal>

<https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck>

<https://github.com/eclipse-ee4j/glassfish-jsftemplating>

<https://github.com/eclipse-ee4j/glassfish-hk2-extra>

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Hibernate Validator CDI, 6.2.5.Final

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JSR-166 Extension - JEP 266

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Project: <http://www.kineticjs.com>, <https://github.com/ericdrowell/KineticJS>

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Fourth party #63 org.glassfish:jakarta.el:jar:

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Fourth party #72, #73 io.github.resilience4j:resilience4j components

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<https://github.com/jakartaee/rest>

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That's all there is to it!

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poi-ooxml-lite

```
=====
=====
```

Top level component : org.apache.poi:poi-ooxml-lite:jar

```
=====
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#02 org.xmlresolver:xmlresolver:jar:data:
#03 org.apache.httpcomponents.client5:httpclient5:jar:
#04 org.apache.httpcomponents.core5:httpcore5:jar:
#05 org.apache.httpcomponents.core5:httpcore5-h2:jar:
#06 org.slf4j:slf4j-api:jar:

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Fourth party #01, #02 org.xmlresolver:xmlresolver:jar: and xmlresolver:jar:data

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Fourth party #05 org.apache.httpcomponents.core5:httpcore5-h2:jar:

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spring-aspects
- aspectjweaver
spring-beans
spring-context
spring-context-support
spring-core
spring-expression
spring-jdbc
spring-jms
spring-oxm
spring-tx
spring-web
spring-webmvc
spring-messaging

=====

aspectjweaver

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spring-integration-kafka

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Top level component - spring-integration-kafka 5.5.13

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#02 org.springframework:spring-beans
#03 org.springframework:spring-context
#04 org.springframework:spring-core
#05 org.springframework:spring-jcl
#06 org.springframework:spring-messaging
#07 org.springframework:spring-tx
#08 org.springframework.kafka:spring-kafka
#09 org.springframework.retry:spring-retry
#10 io.projectreactor:reactor-core
#11 org.lz4:lz4-java
#12 org.apache.kafka:kafka-clients
#13 org.xerial.snappy:snappy-java
#14 com.jayway.jsonpath:json-path
#15 com.github.luben:zstd-jni
#16 org.ow2.asm:asm
#17 org.reactivestreams:reactive-streams
#18 org.slf4j:slf4j-api

#19 org.osgi.org.osgi.core

#20 com.google.code.findbugs:jsr305

#21 org.springframework.integration:spring-integration-core

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Fourth party Dependencies:

org.slf4j:slf4j-api:jar:

thymeleaf-extras-springsecurity6

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Top level component : thymeleaf-extras-springsecurity6:jar

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Fourth party dependencies

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#02 org.thymeleaf:thymeleaf:jar:

#03 org.attoparser:attoparser:jar:

#04 org.unbescape:unbescape:jar:

#05 org.slf4j:slf4j-api:jar:

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Fourth party #01, #02 org.thymeleaf:thymeleaf components

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#02 commons-codec

#03 slf4j-api

#04 woodstox-core

#05 stax2-api

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Fourth party #01 jakarta.xml.bind-api

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rhino-1.7.14.jar - JavaScript implementation in Java

Source: <https://github.com/mozilla/rhino>

Used by: Xalan-Java 2's non Java extensions

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ASM: a very small and fast Java bytecode manipulation framework

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David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

agg24-svn

The Anti-Grain Geometry Project

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ttutil.cpp

/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

/* Very simple interface to the ppr TT routines */

/* (c) Frank Siegert 1996 */

+++++

ppdrv.h

```
-----  
  
/*  
  
* Modified for use within matplotlib  
  
* 5 July 2007  
  
* Michael Droettboom  
  
*/  
  
/*  
  
** ~ppr/src/include/pprdrv.h  
  
** Copyright 1995, Trinity College Computing Center.  
  
** Written by David Chappell.  
  
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**  
  
** This file last revised 5 December 1995.  
  
*/  
  
+++++++  
  
pprdrv_tt.cpp  
  
-----  
  
/*  
  
* Modified for use within matplotlib  
  
* 5 July 2007  
  
* Michael Droettboom  
  
*/  
  
/*  
  
** ~ppr/src/pprdrv/pprdrv_tt.c  
  
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```

```
**
```

```
** TrueType font support. These functions allow PPR to generate
** PostScript fonts from Microsoft compatible TrueType font files.
```

```
**
```

```
** Last revised 19 December 1995.
```

```
*/
```

```
+++++
```

```
pprdrv_tt2.cpp
```

```
-----
```

```
/*
```

```
* Modified for use within matplotlib
```

```
* 5 July 2007
```

```
* Michael Droettboom
```

```
*/
```

```
/*
```

```
** ~ppr/src/pprdrv/pprdrv_tt2.c
```

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```

```
**
```

```
** TrueType font support. These functions allow PPR to generate
```

```
** PostScript fonts from Microsoft compatible TrueType font files.
```

```
**
```

```
** The functions in this file do most of the work to convert a
** TrueType font to a type 3 PostScript font.
**
** Most of the material in this file is derived from a program called
** "ttf2ps" which L. S. Ng posted to the usenet news group
** "comp.sources.postscript". The author did not provide a copyright
** notice or indicate any restrictions on use.
**
** Last revised 11 July 1995.
*/

+++++
truetype.h
-----

/*
 * Modified for use within matplotlib
 * 5 July 2007
 * Michael Droettboom
 */

/*
** ~ppr/src/include/typetype.h
**
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**
** This include file is shared by the source files
** "pprdrv/pprdrv_tt.c" and "pprdrv/pprdrv_tt2.c".
**
** Last modified 19 April 1995.
*/

+++++
```

_tkmini.h

/* Small excerpts from the Tcl / Tk 8.6 headers

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SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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js/libs/require-css/css.min MIT
scss/oj/v14.0.5/3rdparty/normalize/normalize.scss MIT
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Chai

<https://github.com/chaijs/chai>

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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jsep -

<https://github.com/soney/jsep>

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<http://proj4js.org/>

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require-css

<https://github.com/guybedford/require-css>

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Hammer.JS

<http://hammerjs.github.io/>

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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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select2.js

<https://github.com/select2/select2>

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

<http://github.com/jrburke/requirejs>

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react-router-dom

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Name: dragon4

Files: numpy/_core/src/multiarray/dragon4.c

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*
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*/

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Name: spin

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<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Files: numpy/.dylibs/libscipy_openblas*.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/OpenMathLib/OpenBLAS/>

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Name: fast_matrix_market

Files: scipy/io/_fast_matrix_market/*

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Name: pystreambuf

Files: scipy/io/_fast_matrix_market/src/pystreambuf.h

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Name: fast_float

Files: scipy/io/_fast_matrix_market/fast_matrix_market/dependencies/fast_float/*

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Name: ryu

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Name: ID

Files: scipy/linalg/src/id_dist/*

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Name: L-BFGS-B

Files: scipy/optimize/lbfgsb/*

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From the website for the L-BFGS-B code (from at
<http://www.ece.northwestern.edu/~nocedal/lbfgsb.html>):

""""

L-BFGS-B is a limited-memory quasi-Newton code for bound-constrained optimization, i.e. for problems where the only constraints are of the form $l \leq x \leq u$.

""""

This is a Python wrapper (using F2PY) written by David M. Cooke
 <cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.

The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version in March 2012.

License of L-BFGS-B (Fortran code)

=====

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It carries the following condition for use:

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References

- * R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and Statistical Computing, 16, 5, pp. 1190-1208.
- * C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (1997), ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
- * J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (2011), ACM Transactions on Mathematical Software, 38, 1.

The Python wrapper

=====

This code uses F2PY (<http://cens.ioc.ee/projects/f2py2e/>) to generate the wrapper around the Fortran code.

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Example usage

=====

An example of the usage is given at the bottom of the lbfgsb.py file.

Run it with 'python lbfgsb.py'.

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=====

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Name: LAPJVsp

Files: scipy/sparse/csgraph/_matching.pyx

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Name: Faddeeva

Files: scipy/special/Faddeeva.*

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Name: ampgo

Files: benchmarks/benchmarks/go_benchmark_functions/*.py

License: MIT

Functions for testing global optimizers, forked from the AMPGO project,

<https://code.google.com/archive/p/ampgo>

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Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are included with every binary build of SciPy.

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Name: HiGHS

Files: scipy/optimize/_highs/*

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Name: Boost

Files: `scipy/_lib/boost_math/*`

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Name: Biasedurn

Files: scipy/stats/biasedurn/*

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Name: UNU.RAN

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Name: NumPy

Files: scipy/stats/_rcont/[logfactorial.h,logfactorial.c]

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Name: array-api-compat

Files: scipy/_lib/array-api-compat/*

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Name: Tempita

Files: scipy/_build_utils/tempita/*

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Files: scipy/.dylibs/libquadmath*.so

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stax2-api

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src/main/java/org/codehaus/stax2/typed/Base64Variant.java:

/* Stax2 extension for basic Stax API (JSR-173).

*

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