Oracle® Communications Billing and Revenue Management

Licensing Information User Manual

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Introduction

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Licensing Information

Product	Subproduct	Licensing Description
Oracle Communications Advanced Billing and Revenue Management Server Products	All Oracle Communications Advanced Billing and Revenue Management Products	**Included Functionality:** The following modules are included: • Balance Management • Balance Monitoring • Convergent Subscriber Management • Business Operations Center • Billing • Financial Management • Invoicing • Order Inventory Framework • Partner Relationship Management • Pipeline Configuration Center • Real-time Rating • Reporting • Self-Care Manager • Subscriber and Hierarchy Management • Subscriber Groups Management • Resource Reservation • Advanced Discounting • Elastic Charging Engine • Oracle Communications Batch Rating • Oracle Communications Offline Mediation Controller **Prerequisites:** • Oracle Database Enterprise Edition • Oracle Database Enterprise Edition Option: Partitioning • Oracle Database Enterprise Edition Option: RAC or RAC One Node • Oracle WebLogic Suite for Oracle Applications or Oracle WebLogic Server Enterprise Edition • Customers must be licensed to use Analytics Publisher for Oracle Applications: o To use out-of-the-box reports shipped with Oracle Communications Advanced Billing and Revenue Management or build additional reports against the Oracle Communications Billing and Revenue Management schema. Analytics Publisher for Oracle Applications is the reporting platform for Oracle Communications Billing and Revenue Management. o To leverage the Oracle Communications Advanced Billing and Revenue Management integration with Analytics Publisher for Oracle Applications for generating invoice documents. The following are required only when deploying Elastic Charging Engine:

Product	Subproduct	Licensing Description
		• Oracle Coherence Enterprise Edition for Oracle Applications or Oracle Coherence Grid Edition for Oracle Applications if active site redundancy is required. • Oracle Database Enterprise Edition for using as rated events store and cache persistence store or NoSQL Database Enterprise Edition Option for using only as a rated event store. The following is a prerequisite for using Oracle Communications Offline Mediation Controller, Oracle Communications Pricing Design Center and Business Operations Center: • Oracle Identity and Access Management Suite Plus for Oracle Applications **Inclusions:** A license to any Oracle Communications Advanced Billing and Revenue Management core option includes restricted-use licenses to Oracle Communications Offline Mediation Controller. Use of Oracle Communications Offline Mediation Controller is restricted to development of, management of, and access to end user services managed by Oracle Communications Advanced Billing and Revenue Management when using the Elastic Charging Engine. The license for Oracle Communications Offline Mediation Controller is restricted for use with Oracle Communications Advanced Billing and Revenue Management and includes the Offline Mediation Controller Elastic Charging Engine Bundle and Suspense Management Cartridge Bundle. Any need to use Offline Mediation Controller Cartridges outside of Oracle Communications Advanced Billing and Revenue Management requires a separate purchase of a full use license of Offline Mediation Controller. Offline Mediation Controller Cartridges can be used with the restricted use license of Offline Mediation Controller for use with Oracle Communications Advanced Billing and Revenue Management only. Additional cartridges and cartridge bundles for use with Oracle Communications Advanced Billing and Revenue Management can be purchased separately. See the supplemental information of each Offline Mediation Controller Cartridge for additional restrictions. Elastic Charging Engine includes Data Tier capability. A license to Oracle Communications Advanced Billing and Revenue Management products, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Elastic Charging Engine.
	Oracle Communications Advanced Billing and Revenue Management	The license for Oracle Communications Advanced Billing and Revenue Management includes the ability and rights to use online and offline rating, core billing, invoicing, and revenue management functionality. **Prerequisites and Inclusions:** See All Oracle Communications Advanced Billing and Revenue Management Server Products. **Included licenses:** With the purchase of Oracle Communications Advanced Billing and Revenue Management, the customer is granted a restricted use license for Oracle Communications Billing Care for up to fifty (50) Named User Plus (“NUP”) users. Such restricted use license for Oracle Communications Billing Care is provided solely as a replacement for the Payment Tool and permits use exclusively for the following payment-related functionalities:

		• Making a Payment • Allocating Payments • Importing batch Payments • Process Payment Reversals • Issuing a Refund via Check, Cash, Wire Transfer, Postal Order or Inter-bank transfer • Validate and manually suspend incoming payments Use of Oracle Communications Billing Care pursuant to this restricted use license for any purpose or functionality other than those expressly listed above is strictly prohibited and shall require the customer to obtain additional Oracle Communications Billing Care licenses. Named User Plus (NUP): is defined as an individual authorized by you to use the programs which are installed on a single server or multiple servers, regardless of whether the individual is actively using the programs at any given time. A non-human operated device will be counted as a named user plus in addition to all individuals authorized to use the programs, if such devices can access the programs. If multiplexing hardware or software (e.g., a TP monitor or a web server product) is used, this number must be measured at the multiplexing front end. Automated batching of data from computer to computer is permitted. You are responsible for ensuring that the named user plus per processor minimums are maintained for the programs contained in the user minimum table in the licensing rules section; the minimums table provides for the minimum number of named users plus required and all actual users must be licensed.
	Oracle Communications Advanced Billing and Revenue Management for Convergent Rating	Oracle Communications Advanced Billing and Revenue Management for Convergent Rating entitles customers to use the Oracle Communications Advanced Billing and Revenue Management for online and offline rating applications. **Included product and prerequisites:** In addition to the listing in All Oracle Communications Billing and Revenue Management Server Products, Oracle Identity and Access Management Suite Plus for Oracle Applications is a prerequisite for using Offline Mediation Controller. **Included licenses:** This license includes the right to use the Oracle Communications Billing and Revenue Management Server Extensions Batch Rating module and Oracle Communications Offline Mediation Controller.

Product	Subproduct	Licensing Description
		Restrictions: The license for Oracle Communications Advanced Billing and Revenue Management for Convergent Rating includes the ability and rights to use Oracle Communications Advanced Billing and Revenue Management functionality for offline rating of Call Detail Records (CDRs) or Event Data Records (EDRs) and online rating of usage and events. It does not include the right to use Oracle Communications Advanced Billing and Revenue Management for billing and invoicing. Use of Oracle Communications Offline Mediation Controller is restricted to development of, management of, and access to end user services managed by Oracle Communications Advanced Billing and Revenue Management for Convergent Rating when using the Elastic Charging Engine. The license for Oracle Communications Offline Mediation Controller is restricted for use with Oracle Communications Advanced Billing and Revenue Management for Convergent Rating and includes the Offline Mediation Controller Elastic Charging Engine Bundle and Suspense Management Cartridge Bundle. Any need to use Offline Mediation Controller Cartridges outside of Oracle Communications Advanced Billing and Revenue Management for Convergent Rating requires a separate purchase of a full use license of Offline Mediation Controller. Offline Mediation Controller Cartridges can be used with the restricted use license of Offline Mediation Controller for use with Oracle Communications Advanced Billing and Revenue Management for Convergent Rating only. Additional cartridges and cartridge bundles for use with Oracle Communications Advanced Billing and Revenue Management for Convergent Rating can be purchased separately. See the supplemental information of each Offline Mediation Controller Cartridge for additional restrictions. Elastic Charging Engine includes Data Tier capability. A license to Oracle Communications Advanced Billing and Revenue Management for Convergent Rating, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Elastic Charging Engine.
	Oracle Communications Advanced Billing and Revenue Management for Value-Add Services	Oracle Communications Advanced Billing and Revenue Management for Value-Add Services entitles customers to use the Oracle Communications Advanced Billing and Revenue Management for non-voice wireless services. **Included product and prerequisites:** In addition to the listing in All Oracle Communications Billing and Revenue Management Server Products, Oracle Identity and Access Management Suite Plus for Oracle Applications is a prerequisite for using Offline Mediation Controller. **Included licenses:** This license includes the right to use the Oracle Communications Billing and Revenue Management Server Extensions Batch Rating module and Oracle Communications Offline Mediation Controller. With the purchase of Oracle Communications Advanced Billing and Revenue Management for Value-Add Services, the customer is granted a restricted use license for Oracle Communications Billing Care for up to fifty (50) Named User Plus (“NUP”) users. Such restricted use license for Oracle Communications Billing Care is provided solely as a replacement for the Payment Tool and permits use exclusively for the following payment-related functionalities: • Making a Payment • Allocating Payments • Importing batch Payments

		• Process Payment Reversals • Issuing a Refund via Check, Cash, Wire Transfer, Postal Order or Inter-bank transfer • Validate and manually suspend incoming payments Use of Oracle Communications Billing Care pursuant to this restricted use license for any purpose or functionality other than those expressly listed above is strictly prohibited and shall require the customer to obtain additional Oracle Communications Billing Care licenses. Named User Plus (NUP): is defined as an individual authorized by you to use the programs which are installed on a single server or multiple servers, regardless of whether the individual is actively using the programs at any given time. A non-human operated device will be counted as a named user plus in addition to all individuals authorized to use the programs, if such devices can access the programs. If multiplexing hardware or software (e.g., a TP monitor or a web server product) is used, this number must be measured at the multiplexing front end. Automated batching of data from computer to computer is permitted. You are responsible for ensuring that the named user plus per processor minimums are maintained for the programs contained in the user minimum table in the licensing rules section; the minimums table provides for the minimum number of named users plus required and all actual users must be licensed. **Restrictions:** The license for Oracle Communications Advanced Billing and Revenue Management for Value-Add Services includes the ability and rights to use Oracle Communications Advanced Billing and Revenue Management functionality specific to processing of value-add services. Any use of Oracle Communications Advanced Billing and Revenue Management for processing of any data related to wireless voice services requires purchase of a separate Oracle Communications Advanced Billing and Revenue Management license. Use of Oracle Communications Offline Mediation Controller is restricted to development of, management of, and access to end user services managed by Oracle Communications Advanced Billing and Revenue Management for Value-Add Services when using the Elastic Charging Engine. The license for Oracle Communications Offline Mediation Controller is restricted for use with Oracle Communications Advanced Billing and Revenue Management for Value-Add Services and includes the Offline Mediation Controller Elastic Charging Engine Bundle and Suspense Management Cartridge Bundle. Any need to use Offline Mediation Controller Cartridges outside of Oracle Communications Advanced Billing and Revenue Management for Value-Add Services requires a separate purchase of a full use license of Offline Mediation Controller. Offline Mediation Controller Cartridges can be used with the restricted use license of Offline Mediation Controller for use with Oracle Communications Advanced Billing and Revenue Management for Value-Add Services only. Additional cartridges and cartridge bundles for use with Oracle Communications Advanced Billing and Revenue Management for Value-Add Services can be purchased separately. See the supplemental information of each Offline Mediation Controller Cartridge for additional restrictions. Elastic Charging Engine includes Data Tier capability. A license to Oracle Communications Advanced Billing and Revenue Management for Value-Add Services, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Elastic Charging Engine.

Product	Subproduct	Licensing Description
Oracle Communications Advanced Billing and Revenue Management Suite	Oracle Communications Advanced Billing and Revenue Management Suite	Oracle Communications Advanced Billing and Revenue Management Suite includes the ability and rights to use Oracle Communications Advanced Billing and Revenue Management, all modules in Oracle Communications Billing and Revenue Management Server Extensions, and all modules in Oracle Communications Billing and Revenue Management Market Extensions. **Prerequisites:** • Oracle Database Enterprise Edition • Oracle Database Enterprise Edition Option: Partitioning • Oracle Database Enterprise Edition Option: RAC • Oracle WebLogic Suite for Oracle Applications or Oracle WebLogic Server Enterprise Edition Customer must be licensed to use Analytics Publisher for Oracle Applications: • To use out-of-the-box reports shipped with Oracle Communications Advanced Billing and Revenue Management or build additional reports against the Oracle Communications Billing and Revenue Management schema. Analytics Publisher for Oracle Applications is the reporting platform for Oracle Communications Billing and Revenue Management. • To leverage the Oracle Communications Advanced Billing and Revenue Management integration with Analytics Publisher for Oracle Applications for generating invoice documents. The following are required only when deploying Elastic Charging Engine: • Oracle Coherence Enterprise Edition for Oracle Applications or Oracle Coherence Grid Edition for Oracle Applications if active site redundancy is required • Oracle Database Enterprise Edition for using as rated events store and cache persistence store or NoSQL Database Enterprise Option for using only as a rated event store The following is a prerequisite for using Oracle Communications Offline Mediation Controller, Oracle Communications Pricing Design Center and Business Operations Center: • Oracle Identity and Access Management Suite Plus for Oracle Applications **Inclusions:** A license to Oracle Communications Advanced Billing and Revenue Management Suite includes restricted-use licenses to Oracle Communications Offline Mediation Controller. Use of Oracle Communications Offline Mediation Controller is restricted to development of, management of, and access to end user services managed by Oracle Communications Advanced Billing and Revenue Management Suite when using the Elastic Charging Engine. The license for Oracle Communications Offline Mediation Controller is restricted for use with Oracle Communications Advanced Billing and Revenue Management Suite and includes the Offline Mediation Controller Elastic Charging Engine Bundle and Suspense Management Cartridge Bundle. Any need to use Offline Mediation Controller Cartridges outside of Oracle Communications Advanced Billing and Revenue Management Suite requires a separate purchase of a full use license of Offline Mediation Controller. Offline Mediation Controller Cartridges can be used with the restricted use license of Offline Mediation Controller for use with Oracle Communications Advanced

		Billing and Revenue Management Suite only. Additional cartridges and cartridge bundles for use with Oracle Communications Advanced Billing and Revenue Management Suite can be purchased separately. Please see supplemental info of each Offline Mediation Controlled Cartridges for restrictions. Elastic Charging Engine includes Data Tier capability. A license to Oracle Communications Advanced Billing and Revenue Management Suite, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Elastic Charging Engine. **Included licenses:** This license includes the right to use the Oracle Communications Billing and Revenue Management Server Extensions Batch Rating module and Oracle Communications Offline Mediation Controller. With the purchase of Oracle Communications Advanced Billing and Revenue Management Suite, the customer is granted a restricted use license for Oracle Communications Billing Care for up to fifty (50) Named User Plus ("NUP") users. Such restricted use license for Oracle Communications Billing Care is provided solely as a replacement for the Payment Tool and permits use exclusively for the following paym ent-related functionalities: • Making a Payment • Allocating Payments • Importing batch Payments • Process Payment Reversals • Issuing a Refund via Check, Cash, Wire Transfer, Postal Order or Inter-bank transfer • Validate and manually suspend incoming payments Use of Oracle Communications Billing Care pursuant to this restricted use license for any purpose or functionality other than those expressly listed above is strictly prohibited and shall require the customer to obtain additional Oracle Communications Billing Care licenses. Named User Plus (NUP): is defined as an individual authorized by you to use the programs which are installed on a single server or multiple servers, regardless of whether the individual is actively using the programs at any given time. A non-human operated device will be counted as a named user plus in addition to all individuals authorized to use the programs, if such devices can access the programs. If multiplexing hardware or software (e.g., a TP monitor or a web server product) is used, this number must be measured at the multiplexing front end. Automated batching of data from computer to computer is permitted. You are responsible for ensuring that the named user plus per processor minimums are maintained for the programs contained in the user minimum table in the licensing rules section; the minimums table provides for the minimum number of named users plus required and all actual users must be licensed.

Product	Subproduct	Licensing Description
Oracle Communications Billing and Revenue Management for Billing	Oracle Communications Billing and Revenue Management for Billing	Oracle Communications Billing and Revenue Management for Billing entitles customers to use the Oracle Communications Billing and Revenue Management for billing and invoicing applications. **Included functionality:** The following modules are included: • Balance Management • Balance Monitoring • Billing • Convergent Subscriber Management • Financial Management • Business Operations Center • Invoicing • Order Inventory Framework • Partner Relationship Management • Real-time Rating for pre-rated event loading. • Reporting • Self-Care Manager • Subscriber and Hierarchy Management • Subscriber Groups Management • Advanced Discounting **Restrictions:** The license for Oracle Communications Billing and Revenue Management for Billing includes the ability and rights to use all Oracle Communications Billing and Revenue Management functionality for billing, invoicing, and bill time discounts with Advanced Discounting. It does not include the right to use Oracle Communications Billing and Revenue Management for any rating or re-rating functions beyond extracting the pre-rated cost from the processed event.

Product	Subproduct	Licensing Description
		Prerequisites: • Oracle Database Enterprise Edition • Oracle Database Enterprise Edition Option: Partitioning • Oracle Database Enterprise Edition Option: RAC • Oracle WebLogic Suite for Oracle Applications or Oracle WebLogic Server Enterprise Edition • Customer must be licensed to use Analytics Publisher for Oracle Applications: o To use out-of-the-box reports shipped with Oracle Communications Advanced Billing and Revenue Management or build additional reports against the Oracle Communications Billing and Revenue Management schema. Analytics Publisher for Oracle Applications is the reporting platform for Oracle Communications Billing and Revenue Management. o To leverage the Oracle Communications Advanced Billing and Revenue Management integration with Analytics Publisher for Oracle Applications for generating invoice documents. The following is a prerequisite for use of Oracle Communications Pricing Design Center and Business Operations Center: • Oracle Identity and Access Management Suite Plus for Oracle Applications **Included licenses:** With the purchase of Oracle Communications Billing and Revenue Management for Billing, the customer is granted a restricted use license for Oracle Communications Billing Care for up to fifty (50) Named User Plus (“NUP”) users. Such restricted use license for Oracle Communications Billing Care is provided solely as a replacement for the Payment Tool and permits use exclusively for the following payment-related functionalities: • Making a Payment • Allocating Payments • Importing batch Payments • Process Payment Reversals • Issuing a Refund via Check, Cash, Wire Transfer, Postal Order or Inter-bank transfer • Validate and manually suspend incoming payments Use of Oracle Communications Billing Care pursuant to this restricted use license for any purpose or functionality other than those expressly listed above is strictly prohibited and shall require the customer to obtain additional Oracle Communications Billing Care licenses. Named User Plus (NUP): is defined as an individual authorized by you to use the programs which are installed on a single server or multiple servers, regardless of whether the individual is actively using the programs at any given time. A non-human operated device will be counted as a named user plus in addition to all individuals authorized to use the programs, if such devices can access the programs. If multiplexing hardware or

		software (e.g., a TP monitor or a web server product) is used, this number must be measured at the multiplexing front end. Automated batching of data from computer to computer is permitted. You are responsible for ensuring that the named user plus per processor minimums are maintained for the programs contained in the user minimum table in the licensing rules section; the minimums table provides for the minimum number of named users plus required and all actual users must be licensed.
Oracle Communications Elastic Charging Engine	Oracle Communications Elastic Charging Engine	Oracle Communications Elastic Charging Engine includes the ability and rights to use online rating, reservation and charging functionality, including account, balance and quota management for both prepaid and postpaid subscribers in simple to complex account hierarchies. The license allows for network integration to the Oracle Communications Elastic Charging Engine via Diameter Gy, Sy and Sh protocols, and 5G service-based interfaces. **Included functionality:** The following modules are included: • Online Rating • Balance Management • Balance Monitoring • Subscriber Management • Financial Management • Reporting • Self-Care Manager • Subscriber and Hierarchy Management • Subscriber Groups Management • Resource Reservation • Advanced Discounting **Prerequisites:** • Oracle Database Enterprise Edition • Oracle Database Enterprise Edition Option: Partitioning • Oracle WebLogic Suite for Oracle Applications or Oracle WebLogic Server Enterprise Edition • Oracle Identity and Access Management Suite Plus for Oracle Applications • Oracle Coherence Enterprise Edition for Oracle Applications or Oracle Coherence Grid Edition for Oracle Applications if active site redundancy is required • Oracle Database Enterprise Edition for using as rated events store and cache persistence store or NoSQL Database Enterprise Edition Option for using only as a rated event store

Product	Subproduct	Licensing Description
		• Oracle Database Enterprise Edition Option: RAC or RAC One Node– Optional for the customer to deploy the Oracle Communications Elastic Charging Engine Database in a Highly Available architecture • Analytics Publisher for Oracle Applications – Optional for the customer to use out-of-the-box reports shipped with Oracle Communications Elastic Charging Engine or build additional reports against the Oracle Communications Elastic Charging Engine Database schema **Inclusions:** A license to Oracle Communications Elastic Charging Engine includes the following restricted-use licenses to Oracle Communications Pricing Design Center, Oracle Communications Billing Care, Oracle Communications Developer Suite, and Oracle Communications Web Services Manager (the use of Web Services Manager is restricted to charging related APIs only), Oracle Communications Offline Mediation Controller, and Oracle Communication Radius Manager. The quantity of named user plus restricted-use licenses are limited to: • 5 Named User Plus for Oracle Communications Pricing Design Center • 10 Named User Plus for Oracle Communications Billing Care • 3 Named User Plus for Oracle Communications Developer Suite. Use of Oracle Communications Pricing Design Center, Oracle Communications Billing Care, Oracle Communications Developer Suite, Oracle Communications Offline Mediation Controller, and Oracle Communications Web Services Manager is restricted to development and management of and access to end user services managed by Oracle Communications Elastic Charging Engine. The license for Oracle Communications Offline Mediation Controller is restricted for use with Oracle Communications Elastic Charging Engine and includes the Offline Mediation Controller Elastic Charging Engine Bundle and Suspense Management Cartridge Bundle. Any need to use Offline Mediation Controller Cartridges outside of Oracle Communications Elastic Charging Engine requires a separate purchase of a full use license of Offline Mediation Controller. Offline Mediation Controller Cartridges can be used with the restricted use license of Offline Mediation Controller for use with Oracle Communications Elastic Charging Engine only. Additional cartridges and cartridge bundles for use with Oracle Communications Elastic Charging Engine can be purchased separately. Please see supplemental info of each Offline Mediation Controlled Cartridges for restrictions. Elastic Charging Engine includes Data Tier capability. A license to Oracle Communications Elastic Charging Engine, includes a restricted use license to MySQL Cluster Carrier Grade Edition. MySQL Cluster Carrier Grade Edition may be used solely to deploy and run Elastic Charging Engine.

Oracle Communications Billing and Revenue Management	Oracle Communications Billing and Revenue Management	**Prerequisites:** All Oracle Communications Billing and Revenue Management Server Extensions require that customers also be licensed to use one of the following products: • Oracle Communications Advanced Billing and Revenue Management

Product	Subproduct	Licensing Description
Server Extensions	Server Extensions - All Products	• Oracle Communications Advanced Billing and Revenue Management for Convergent Rating • Oracle Communications Advanced Billing and Revenue Management Server for Value-Add Services • Oracle Communications Billing and Revenue Management for Billing • Oracle Communications Elastic Charging Engine
	Oracle Communications Batch Rating	Oracle Communications Batch Rating leverages the batch pipeline architecture and processes events that include call assembly, sequence checking, guiding, zone analysis, rating, balance updates, and synchronization as well as re-rating. It includes use of the Pipeline Configuration Center for the configuring of Batch Rating. Batch rating is generally used for processing high-volume usage events. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products. **Licensing notes:** An Oracle Communications Batch Rating license is included with the purchase of the following product: • Oracle Communications Advanced Billing and Revenue Management for Convergent Rating
	Oracle Communications Collections Manager	Oracle Communications Collections Manager provides full management of overdue receivables including assigning tasks to collections agents, customer profiling, debt aging, and multiple collections scenarios. It is fully integrated to Oracle Communications Billing and Revenue Management A/R and G/L and includes a GUI for configuration and operation. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications EAI Manager	Oracle Communications Enterprise Application Integration (EAI) Manager facilitates integrations between Oracle Communications Billing and Revenue Management and other enterprise applications. The Oracle Communications EAI Manager assembles and publishes business events through a consistent interface and includes a default set of business events to be published. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications MultiDB Manager	Oracle Communications MultiDB Manager provides support for running a single instance of Oracle Communications Billing and Revenue Management within a multi-schema environment. The Oracle Communications MultiDB Manager allows customer accounts to be distributed across several schemas in a database. This enables Oracle Communications Billing and Revenue Management to scale in order to handle extremely large workloads, both in terms of throughput and subscribers. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.

Product	Subproduct	Licensing Description
	Oracle Communications Payment Manager for Paymentech	Oracle Communications Payment Manager for Paymentech provides a packaged integration to Paymentech, a third-party payment gateway integrated to a number of financial institutions in Canada, United States, and Europe. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications Payment Suspense Manager	Oracle Communications Payment Suspense Manager allows suspending payments that fail validation rules and managing suspended payments. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications Revenue Assurance Manager	Oracle Communications Revenue Assurance Manager provides support for verifying the end-to-end completeness, accuracy, and integrity of all revenue- generating events as they flow through Oracle Communications Billing and Revenue Management. Oracle Communications Revenue Assurance Manager provides a framework for collecting audit information for rating and billing business owners to ensure data integrity. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications Suspense Manager	Oracle Communications Suspense Manager provides support for managing usage records that have been suspended during processing. This allows the user to analyze, edit, recycle, write-off, and delete suspended CDRs. Oracle Communications Suspense Manager consists of a server-side component (Suspense Manager) and a GUI (Suspense Management Center) which enables users to perform these tasks individually or in bulk. When using the Oracle Communications Advanced Billing and Revenue Management with Oracle Communications Offline Mediation Controller for processing CDRs the Suspense Manager License allow for use of the Offline Mediation Controller Suspense Management Cartridge Bundle. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications Taxation Manager for Vertex	Oracle Communications Taxation Manager for Vertex provides a packaged integration to Vertex, a third-party software package for calculating taxes. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products. A separate license must be purchased from Vertex for the Vertex product.

Product	Subproduct	Licensing Description
	Oracle Communications Voucher and Top-up Manager	Oracle Communications Voucher and Top-up Manager provides support for securely adjusting funds to customer's monetary balances and is integrated with Oracle Communications Billing and Revenue Management audit tracking and G/L processes. Oracle Communications Voucher and Top-up Manager also supports handling the full voucher lifecycle and the management of vouchers against account balances. This includes securely creating, ordering, processing, and distributing voucher cards or virtual vouchers as a newly supported inventory and payment capability items. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications Web Services Manager	Oracle Communications Web Services Manager provides a standards-based interface to Oracle Communications Billing and Revenue Management's most commonly used APIs. The Oracle Communications Web Services Manager uses Web Services standards and accepts and returns SOAP messages sent over HTTP. The Web Services Manager includes the Oracle Communications Billing and Revenue Management JCA Resource Adapter, which enables connectivity between Oracle Communications Billing and Revenue Management and external J2EE-compliant applications. The Web Services Manager includes SOAP APIs, Billing Care REST API, as well as TMF OPEN API aligned REST Interfaces (supported via BRM REST Services Manager) that enables connectivity between BRM and external applications. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Server Extensions – All Products.
	Oracle Communications Billing and Revenue Management Market Extensions - All Products	**Prerequisites:** All Oracle Communications Billing and Revenue Management Market Extensions require that customer also be licensed to use one of the following products: • Oracle Communications Advanced Billing and Revenue Management • Oracle Communications Advanced Billing and Revenue Management for Convergent Rating • Oracle Communications Advanced Billing and Revenue Management Server for Value-Add Services • Oracle Communications Billing and Revenue Management for Billing Oracle Communications Elastic Charging Engine
Oracle Communications Billing and Revenue Management Market Extensions	Oracle Communications Billing and Revenue Management Services Framework	Oracle Communications Billing and Revenue Management Services Framework is a collection of storable classes, opcodes, and utilities that enable further development of Oracle Communications Billing and Revenue Management support for any type of service such as communications, media that can be deployed in production. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.

Product	Subproduct	Licensing Description
	Oracle Communications Content Manager	Oracle Communications Content Manager enables content providers to use Oracle Communications Billing and Revenue Management application hosted by service providers or content aggregators to authenticate and authorize customer's content purchases, rate those content purchases through a variety of options, and to track customer usage patterns in order to gain valuable insight into the types of content customers are buying. **Prerequisites:** See Prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.
	Oracle Communications GPRS Manager	Oracle Communications GPRS Manager offers a complete solution for creating, managing, billing, and settlement for GPRS services. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.
	Oracle Communications GSM Manager	Oracle Communications GSM Manager enables service providers to manage GSM services. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.
	Oracle Communications Interconnect Manager	Oracle Communications Interconnect Manager is an add-on component to the Oracle Communications Batch Rating and facilitates interconnection, which is the process of handling usage events over physical lines between two or more network operators. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products. It is required that customer also be licensed to use Oracle Communications Batch Rating. **Licensing notes:** An Oracle Communications Interconnect Manager license is included with the purchase of one of Oracle Communications Billing and Revenue Management Server for Interconnect.
	Oracle Communications IP Device Manager	Oracle Communications IP Device Manager facilitates the administration of IP address and APN inventories. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.
	Oracle Communications LDAP Manager	Oracle Communications Lightweight Directory Access Protocol (LDAP) Manager provides a centralized way of administering data between Oracle Communications Billing and Revenue Management and LDAP directory servers, required for accurate and timely data translation and exchange between systems. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.
	Oracle Communications Number Manager	Oracle Communications Number Manager enables service providers with the ability to generate, manage, and report on phone number inventory. **Prerequisites:**

Product	Subproduct	Licensing Description
		See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.
	Oracle Communications Radius Manager	Oracle Communications Radius Manager provides a complete RADIUS server solution for real-time authentication, authorization, and accounting using the standard RADIUS protocol, through the Oracle Communications Elastic Charging Engine RADIUS Gateway. **Prerequisites:** Oracle Communications Radius Manager requires that customer also be licensed to use one of the following products: • Oracle Communications Advanced Billing and Revenue Management • Oracle Communications Advanced Billing and Revenue Management for Convergent Rating • Oracle Communications Advanced Billing and Revenue Management Server for Value-Add Services • Oracle Communications Elastic Charging Engine
	Oracle Communications Roaming Manager – CIBER	Oracle Communications Roaming Manager – CIBER provides support for roaming processing. Oracle Communications Roaming Manager - CIBER provides support for validating and processing roaming records (inbound) and generating roaming records (outbound) according to the CIBER standards. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products. It is required that customer also be licensed to use Oracle Communications Batch Rating. **Licensing notes:** Customers should choose one of these two options: either Oracle Communications Roaming Manager – CIBER or Oracle Communications Roaming Manager – TAP.
	Oracle Communications Roaming Manager – TAP	Oracle Communications Roaming Manager – TAP provides support for roaming processing. Oracle Communications Roaming Manager – TAP provides support for validating and processing roaming records (inbound) and generating roaming records (outbound) according to the TAP3 standards. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products. It is required that customer also be licensed to use Oracle Communications Batch Rating. **Licensing notes:** Customers should choose one of these two options: either Oracle Communications Roaming Manager – CIBER or Oracle Communications Roaming Manager – TAP.
	Oracle Communications SIM Manager	Oracle Communications SIM Manager enables service providers with the ability to order, receive, manage, and report on SIM card inventory. **Prerequisites:** See prerequisites for Oracle Communications Billing and Revenue Management Market Extensions – All Products.

Product	Subproduct	Licensing Description
	Oracle Communications Billing and Revenue Management Application User-Based Products - All Products	**Prerequisites:** All Oracle Communications Billing and Revenue Management Application User-Based Products require that customers also be licensed for one of the following products: • Oracle Communications Advanced Billing and Revenue Management • Oracle Communications Advanced Billing and Revenue Management for Convergent Rating • Oracle Communications Advanced Billing and Revenue Management for Value-Add Services • Oracle Communications Advanced Billing and Revenue Management Suite • Oracle Communications Billing and Revenue Management for Billing
	Oracle Communications Billing Care	Oracle Communications Billing Care is a Web-based UI and a companion product for BRM. The application represents the primary user interface through which business users (CSRs) access subscriber centric information in BRM. The application accesses and manipulates financial data like subscriber's credit card numbers, bills, and transactions (usage records etc.); subscribed offerings; hierarchies; financial transactions. Oracle Communications Billing Care comes with an SDK kit, Billing Care customers can add new functionality into the product or alter certain aspects of existing functionality in a controlled and upgrade safe manner. **Prerequisites:** See Prerequisites for Application User-Based Products – All Products. Additionally, licenses for the following are required: • Oracle WebLogic Server Enterprise Edition or Oracle WebLogic Suite for Oracle Applications • Oracle Identity and Access Management Suite Plus for Oracle Apps * ***** Oracle Identity and Access Management is not required if Single Sign-On is not used or if SAML-based Single Sign-On is used. Billing Care uses Oracle Unified Directory (OUD) for authentication (it can work with any LDAP Server supported by WebLogic) and Oracle Platform Security Services (OPSS) for authorization. The OUD license is included in Identity and Access Management Suite. The OPSS license is included in any Fusion Middleware component license, such as WebLogic. Billing Care REST APIs, if used standalone for integration, mandatorily requires Oracle Access Manager (OAM) for token management. The OAM license is included in Identity and Access Management Suite.

Oracle Communications Billing and Revenue Management Application User-Based Products	Oracle Communications Customer Center Manager	Oracle Communications Customer Center Manager is a GUI-based application for managing subscriber accounts in Oracle Communications Billing and Revenue Management including account setup and maintenance, service and product purchase and cancellation, A/R activities, and bill and payment set-up. **Prerequisites:** See Prerequisites for Oracle Communications Billing and Revenue Management Application User-Based Products – All Products.
	Oracle Communications Conversion Manager	Oracle Communications Conversion Manager provides the capability to transfer customer data from legacy systems to Oracle Communications Billing and Revenue Management applications. Customer data may include information on customer profile, account, service, product, or billing. **Prerequisites:** See Prerequisites for Oracle Communications Billing and Revenue Management Application User-Based Products – All Products.
	Oracle Communications Developer Suite	Oracle Communications Developer Suite includes these products: • Oracle Communications Developer Center • Software Developer Kit (SDK) Oracle Communications Developer Center is a Java-based application that allows developers to manage storable objects, to test custom applications, and to specify how event data is loaded into the Oracle Communications Billing and Revenue Management database. The SDK provides a framework as well as a set of tools and libraries for programmers to not only customize business policies, but to also develop custom applications, standard facilities modules, and custom data managers. **Prerequisites:** See Prerequisites for Oracle Communications Billing and Revenue Management Application User-Based Products – All Products.
	Oracle Communications Permissioning Center	Oracle Communications Permissioning Center is a GUI-based application for managing and assigning reusable roles and permissions for users of applications such as Suspense Management Center. Roles can be hierarchical to further enhance or restrict permissions for a specific set of users. **Prerequisites:** See Prerequisites for Application User-Based Products – All Products.
	Oracle Communications Pricing Design Center	The Oracle Communications Pricing Design Center is an application for creating and managing product offerings. It includes the Pricing Design Center Integration Pack for Oracle Communications Billing and Revenue Management. The Pricing Design Center license includes PDC REST Services Manager that enables TMF Open API aligned REST interfaces between PDC and external applications like an Enterprise Product Catalog. **Prerequisites:** • WebLogic Server Suite for Oracle Applications OR WebLogic Server Enterprise Edition

		• Oracle Database Enterprise Edition
		• Oracle Identity and Access Management Suite Plus for Oracle Applications
		• One of the following BRM Server Core licenses:
		  ○ Oracle Communications Advanced Billing and Revenue Management
		  ○ Oracle Communications Advanced Billing and Revenue Management for Convergent Rating
		  ○ Oracle Communications Advanced Billing and Revenue Management for Value-Add Services
		  ○ Oracle Communications Advanced Billing and Revenue Management Suite
		  ○ Oracle Communications Billing and Revenue Management for Billing
		  ○ Oracle Communications Elastic Charging Engine

Oracle Communications Billing and Revenue	Oracle Communications Cloud Native Deployment Option	Oracle Communications Cloud Native Deployment Option enables new and existing customers to make use of the new micro services architecture in a containerized cloud native environment, leveraging the cloud native assets. **Prerequisites:** Oracle Communications Billing and Revenue Management Deployment Options require that customers also be licensed to use one of the following products: • Oracle Communications Advanced Billing and Revenue Management • Oracle Communications Advanced Billing and Revenue Management for Convergent Rating • Oracle Communications Advanced Billing and Revenue Management Server for Value-Add Services • Oracle Communications Billing and Revenue Management for Billing • Oracle Communications Advanced Billing and Revenue Management Suite • Oracle Communications Elastic Charging Engine

Third-Party Notices

Commercial Software

Commercial software used in Oracle Communications Billing and Revenue Management is identified in the following table with the following license notes, restrictions, and disclaimers.
Commercial software products or components distributed in Oracle Communications Billing and Revenue Management are identified in the following table along with the applicable licensing information.

Provider	Component(s)	Functionality	Licensing Information
Rogue Wave	Rogue Wave SourcePro C++ 2016.1	C++ Toolkit	Copyright (c) 1995, 2011 Quovadx, Inc. All Rights Reserved. For a copy of the license see Rogue Wave License.

Open-Source Software

Required notices for open-source software products or components distributed in Oracle Communications Billing and Revenue Management are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third-party open source software.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Commons Beanutils 2.0.0-M2	Bean creation with XML	Apache Commons BeanUtils Copyright 2000-2019 The Apache Software Foundation This product includes software developed by The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Apache License, Version 2.0. For a copy of the license, see Commons Beanutils License.
Apache Software Foundation	Commons Codec 1.22.0	Encoding and decoding framework	Apache Commons Codec Copyright 2002-2026 The Apache Software Foundation This product includes software developed by The Apache Software Foundation (http://www.apache.org/). src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains test data from http://aspell.net/test/orig/batch0.tab. Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org) For a copy of the license, see Apache License, Version 2.0. The content of package org.apache.commons.codec.language.bm has been translated from the original php source code available at http://stevemorse.org/phoneticinfo.htm with permission from the original authors. Original source copyright: Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
Apache Software Foundation	Commons Collections 4.6.0	Extend Java Collections Framework	Apache Commons Collections Copyright 2001-2026 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Commons Collections License. This product includes software developed by The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Apache License, Version 2.0.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Commons Configuration 2.15.1	Configuration	Apache Commons Configuration Copyright 2001-2026 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (https://www.apache.org/). For a copy of the license, see Apache License, Version 2.0. For dependency details, see Commons Configuration.
Apache Software Foundation	Commons IO 2.22.0	IO Functionality	Copyright 2002-2026 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (https://www.apache.org/). For a copy of the license, see Apache License, Version 2.0.
Apache Software Foundation	Commons Lang 3.20.0	Dependency of Commons Configuration	Apache Commons Lang Copyright 2001-2025 The Apache Software Foundation This product includes software developed by The Apache Software Foundation (http://www.apache.org/). Apache Commons Text : Copyright 2014-2025 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (https://www.apache.org/). For a copy of the license, see Apache License, Version 2.0.
Apache Software Foundation	Commons-logging 1.3.6	A bridge between different logging implementations	Apache Commons Logging Copyright 2001-2026 The Apache Software Foundation This product includes software developed byThe Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Apache License, Version 2.0.
Apache Software Foundation	Commons Text 1.15.0	String manipulation library	Apache Commons Text Copyright 2014-2025 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (https://www.apache.org/). For a copy of the license, see Commons Text License.
Apache Software Foundation	Groovy 4.0.32	Language for the Java platform	Apache Groovy Copyright 2003-2023 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Groovy License.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	HttpComponents Client 5.5	HTTP Agent	Apache HttpComponents Client Copyright 1999-2025 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see HttpComponents Client License.
Apache	HttpComponents Core 5.4.3	Apache HttpComponents Core (blocking I/O)	Apache HttpComponents Core Copyright 2005-2024 The Apache Software Foundation This product includes software developed by The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Apache License, Version 2.0
Apache	HttpCore5-h2 5.4.3	Apache HttpComponents HTTP/2 Core Components	Copyright 2005-2024 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/). For a copy of the license, see Apache License, Version 2.0 **Fourth Party Dependancy** org.apache.httpcomponents.core5 » httpcore5 License: Apache 2.0 NOTICE Apache HttpComponents Core Copyright 2005-2024 The Apache Software Foundation This product includes software developed at The Apache Software Foundation (http://www.apache.org/).
Apache Software Foundation	Kafka Clients 4.3.1	Clients for Kafka Messaging Service	Apache Kafka Copyright 2025 The Apache Software Foundation. This product includes software developed at The Apache Software Foundation (https://www.apache.org/). For a copy of license, see Kafka Clients License
Apache Software Foundation	Log4j 2.26.1	Logging	Apache Log4j-core Copyright 1999-2024 Apache Software Foundation For a copy of the license, see Log4j License.
Apache Software Foundation	log4j-slf4j-impl 2.26.1	Log4j SLF4J API binding to Log4j 2 Core	Apache Log4j SLF4J Binding Copyright 1999-2024 Apache Software Foundation For a copy of the license, see Log4j SLF4J Binding License.
Apache Software Foundation	log4j-slf4j2-impl 2.26.1	Log4j SLF4J 2.0 API binding to Log4j 2 Core	Apache Log4j SLF4J2 Binding Copyright 1999-2024 Apache Software Foundation For a copy of the license, see Log4j SLF4J2 Binding License.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	log4j-jul 2.26.1	Log4j implementation of java.util.logging	Apache Log4j Copyright 1999-2023 Apache Software Foundation For a copy of the license, see Log4j-Jul License.
Apache Software Foundation	micrometer-registry-prometheus 1.15.12	Metrics Façade for monitoring	Micrometer Registry Prometheus Copyright (c) 2017-Present VMware, Inc. All Rights Reserved. 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 https://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. For a copy of the license, see Micrometer Registry Prometheus License.
Apache Software Foundation	Reactor-netty 1.2.18	Offers non-blocking and backpressure-ready TCP/HTTP/UDP/QUIC clients & servers based on Netty framework	For a copy of the license, see Reactor Netty License
Apache Software Foundation	HttpComponents HttpClient 5.6.4	Package implementing the client side of the most recent HTTP standards and recommendations.	Apache HttpComponents Client Copyright 1999-2025 The Apache Software Foundation This product includes software developed at The Apache Software Foundation http://www.apache.org/). For a copy of the license, see HttpComponents HttpClient License.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Xerces-C++ version 3.3.0	XML processing	Xerces-C++ version 3.2.5 is bundled with Oracle Communications Billing and Revenue Management 15.0. This is 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 This product includes software developed by The Apache Software Foundation (http://www.apache.org/). Portions of this software were originally based on the following: - software copyright (c) 1999, IBM Corporation., http://www.ibm.com. Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an AS IS BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. For a copy of the license, see Apache License, Version 2.0.
Codehaus	Jettison 1.5.6	XML-JSON conversion library	Copyright 2006 Envoi Solutions LLC 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 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. For a copy of the license, see Apache License, Version 2.0.
Codehaus	Staxmate 2.4.2	XML ETL	Copyright (c) 2007, Tatu Saloranta All rights reserved. This copy of StaxMate processing library is licensed under BSD License (new BSD). See http://www.opensource.org/licenses/bsd-license.php for details. For a copy of the license, see Staxmate API License.
DocumentCloud	Underscore.js 1.13.8	JavaScript framework for creating reusable component templates	Copyright (c) 2009-2022 Jeremy Ashkenas, Julian Gonggrijp, and DocumentCloud and Investigative Reporters & Editors For a copy of the license, see The MIT License. For a copy of the license, see Underscore.js License.

Provider	Component(s)	Functionality	Licensing Information
Eclipse Foundation	Eclipse Link Core 5.0.0		Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors. Copyright (c) 2020 Oracle and/or its affiliates. All rights reserved For a copy of the license, see Eclipse Link Core License.
Eclipse Microprofile Contributors	Openapi-ui 1.1.3		Copyright 2019-2023 the original author or authors. Openapi-ui is licensed under Apache 2.0. For a copy of the license, see Apache License, Version 2.0.
The Dojo Foundation	RequireJS 2.3.8	JavaScript module loader	Copyright: James Burke License: MIT For a copy of the license, see RequireJS License.

Provider	Component(s)	Functionality	Licensing Information
EPFL	Scala 3.8.3	Metadata Definition	SCALA LICENSE Copyright (c) 2002-2023 EPFL Copyright (c) 2011-2023 Lightbend, Inc. Scala includes software developed at LAMP/EPFL (https://lamp.epfl.ch/) and Lightbend, Inc. (https://www.lightbend.com/). For a copy of the license, see Scala License.
EPFL	scala-parser-combinators 2.4.0	Metadata Definition	Copyright (c) 2002-2021 EPFL Copyright (c) 2011-2021 Lightbend, Inc. For a copy of the license, see Scala Parser Combinators License.
FasterXML, LLC	jackson-datatype-jsr310 2.22.3	Date and time processing	jackson-datatype-jsr310 Copyright 2022 FasterXML.com 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 Jackson Datatype jsr310

FasterXML, LLC	Jackson libraries	JSON processing	COPYRIGHT: Copyright (c) 2007-2020 Tatu Saloranta, tatu.saloranta@iki.fiCopyright © 2008–2019 FasterXML. All rights reserved.Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.
	Jackson-core 2.22.3 jackson-Databind 2.22.3 jackson-annotations 2.22		This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 (the License). See the License for details about distribution rights, and the specific rights regarding derivate works. For a copy of the license, see Apache License, Version 2.0 # 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, as well as supported commercially by FasterXML.com.

Provider	Component(s)	Functionality	Licensing Information
3	jackson-jaxrs-json-provider 2.22.3 jackson-jaxrs-base 2.22.3 jackson-module-jaxb-annotations 2.22.3		##Licensing Jackson core and extension components may licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).## Credits A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses. For a copy of the license, see EDL 1.0 Notices for Eclipse Project for JAF This content is produced and maintained by the Eclipse Project for JAF project. Project home: https://projects.eclipse.org/projects/ee4j.jaf Copyright All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs. Declared Project Licenses This program and the accompanying materials are made available under the terms of the Eclipse Distribution License v. 1.0, which is available at http://www.eclipse.org/org/documents/edl-v10.php. Jackson Annotations Copyright (c) 2020 Tatu Saloranta tatu.saloranta@iki.fi For a copy of the license, see Apache License, Version 2.0 Jackson Core Copyright © 2008–2022 FasterXML. All rights reserved. --- jackson-jaxrs-base For a copy of the license, see Jackson JAXRS Base. --- Jackson-jaxrs-json-provider For a copy of the license, see Jackson JAXRS JSON --- jackson-annotations For a copy of the license, see Jackson Annotations. --- Jackson-core For a copy of the license, see Jackson Core. ---

Provider	Component(s)	Functionality	Licensing Information
			Jackson-databind Copyright © 2008–2012 FasterXML. All rights reserved. For a copy of the license, see Jackson Databind. --- jackson-module-jaxb-annotations For a copy of the license, see Jackson Module JAXB Annotations. ---
FasterXML, LLC	jackson-dataformat-yaml 2.22.3		Copyright © 2024 FasterXML. All rights reserved. ./src/main/resources/META-INF/LICENSE This copy of Jackson JSON processor YAML module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivative works. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0 For a copy of the license, see Jackson Dataformat YAML License
FasterXML, LLC	jackson-jakarta-rs-json-provider 2.22.3		Copyright © 2024 FasterXML. All rights reserved. ./src/main/resources/META-INF/LICENSE This copy of Jackson JSON processor YAML module is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivative works. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0 For a copy of the license, see Jackson Jakarta RS Json Provider.
Jsonwebtoken.io	JJWT libraries 0.13.0 Jjwt-api, jjwt-jackson and jjwt-impl	Web tokens processing	Copyright 2018 JWTK 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 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an “AS IS” BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. For a copy of the license, see JJWT License.

Provider	Component(s)	Functionality	Licensing Information
Oracle Corporation	Helidon 4.5.2	Collection of Java libraries for writing microservices	Copyright (c) 2016, 2023 Oracle and/or its affiliates. All rights reserved. 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 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an “AS IS” BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. All dependent license details are called out under Helidon License
Oracle Corporation	Jersey Media JSON Binding 2.40	JSON Binding	Copyright (c) 2017,2023 Oracle and/or its affiliates. All rights reserved. This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0, which is available at http://www.eclipse.org/legal/epl-2.0. Eclipse Public License 2.0 This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception, which is available at https://www.gnu.org/software/classpath/license.html. SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0 All additional dependency details here: Jersey Media JSON Binding
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Runtime dependency tree

```text
org.apache.httpcomponents.client5:httpclient5
```

```
├── org.apache.httpcomponents.core5:httpcore5
├── org.apache.httpcomponents.core5:httpcore5-h2
│   └── org.apache.httpcomponents.core5:httpcore5 (already listed)
└── org.slf4j:slf4j-api
```

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!= 0 {\n\t\terr = errnoErr(e1)\n\t}\n\treturn\n}\n\n// THIS FILE IS GENERATED BY THE COMMAND AT THE TOP; DO NOT EDIT\n\nfunc Sync() (err error) {\n\t_, _, e1 := SyscDLINK = 0x10\n\tMOVEFILE_FAIL_IF_NOT")
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separator
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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jackson-jakarta-rs-json-provider

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This project provides parsers for double, float, BigDecimal and BigInteger values.

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This project provides parsers for double, float, BigDecimal and BigInteger values.

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Jakarta XML Binding API (JAXB)

jakarta.xml.bind:jakarta.xml.bind-api: 2.3.3

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Richard Greenwood richATgreenwoodmap.com
Didier Richard didier.richardATign.fr
Stephen Irons stephen.ironsATclear.net.nz
Olivier Terral oterralATgmail.com
Calvin Metcalf cmetcalfATappgeo.com

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Jersey Bean Validation

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* https://github.com/eclipse-ee4j/el-ri

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Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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Source Code

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* https://github.com/eclipse-ee4j/interceptor-api

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----- sample-header -----
Source file: org/jvnet/hk2/external/generator/ServiceLocatorGeneratorImpl.java

```
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----- sample-header -----
Source file: org/glassfish/hk2/api/AOPProxyCtl.java

```
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----- sample-header -----
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Source Code

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* https://github.com/eclipse-ee4j/glassfish-ha-api
* 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
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Java bytecode engineering toolkit
[Javassist version 3](http://www.javassist.org)

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Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
simple. It is a class library for editing bytecodes in Java; it enables Java
programs to define a new class at runtime and to modify a class file when the
JVM loads it. Unlike other similar bytecode editors, Javassist provides two
levels of API: source level and bytecode level. If the users use the source-
level API, they can edit a class file without knowledge of the specifications
of the Java bytecode. The whole API is designed with only the vocabulary of
the Java language. You can even specify inserted bytecode in the form of
source text; Javassist compiles it on the fly. On the other hand, the
bytecode-level API allows the users to directly edit a class file as other
editors.

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Files

  * README.md
This readme file.

  * Changes.md
  Release notes.

  * License.html
License file.

  * [tutorial/tutorial.html](https://www.javassist.org/tutorial/tutorial.html)
Tutorial.

  * ./javassist.jar
The Javassist jar file (class files).

  * ./src/main
The source files

  * Examples.md
How to run examples.

  * [html/index.html](https://www.javassist.org/html/index.html)
The top page of the Javassist API document.

Hints

To print the version number, type this command:

```
java -jar javassist.jar
```

Acknowledgments

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Java bytecode engineering toolkit
[Javassist version 3](http://www.javassist.org)

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Javassist (JAVA programming ASSISTant) makes Java bytecode manipulation
simple. It is a class library for editing bytecodes in Java; it enables Java
programs to define a new class at runtime and to modify a class file when the
JVM loads it. Unlike other similar bytecode editors, Javassist provides two
levels of API: source level and bytecode level. If the users use the source-
level API, they can edit a class file without knowledge of the specifications
of the Java bytecode. The whole API is designed with only the vocabulary of
the Java language. You can even specify inserted bytecode in the form of
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bytecode-level API allows the users to directly edit a class file as other
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Files

  * README.md
This readme file.

  * Changes.md
  Release notes.

  * License.html
License file.

  * [tutorial/tutorial.html](https://www.javassist.org/tutorial/tutorial.html)
Tutorial.

  * ./javassist.jar
The Javassist jar file (class files).

  * ./src/main
The source files

  * Examples.md
How to run examples.

  * [html/index.html](https://www.javassist.org/html/index.html)
The top page of the Javassist API document.

Hints

To print the version number, type this command:

```
java -jar javassist.jar
```

Acknowledgments

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----- Source header -----
Source file: javassist/ClassPath.java

```
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Jersey Client

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==========

Reactor netty modules being used
---
reactor-netty-core (Apache License 2.0)
reactor-netty-http (Apache License 2.0)

==========

Fourth party dependencies:
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io.netty:netty-codec-http2 (Apache License 2.0)
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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
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---
io.micrometer:micrometer-core

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```

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---

org.hdrhistogram:HdrHistogram

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---
org.latencyutils:LatencyUtils

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---
io.prometheus:simpleclient

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---
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io.prometheus:simpleclient_tracer_otel
io.prometheus:simpleclient_tracer_common
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ABOUT PERL

Perl is a general-purpose programming language originally developed for
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development, and more.

The language is intended to be practical (easy to use, efficient,
complete) rather than beautiful (tiny, elegant, minimal). Its major
features are that it's easy to use, supports both procedural and
object-oriented (OO) programming, has powerful built-in support for text
processing, and has one of the world's most impressive collections of
third-party modules.

For an introduction to the language's features, see pod/perlintro.pod.

For a discussion of the important changes in this release, see
pod/perldelta.pod.

There are also many Perl books available, covering a wide variety of topics,
from various publishers. See pod/perlbook.pod for more information.

INSTALLATION

If you're using a relatively modern operating system and want to
install this version of Perl locally, run the following commands:

```
./Configure -des -Dprefix=$HOME/localperl
make test
make install
```

This will configure and compile perl for your platform, run the regression
tests, and install perl in a subdirectory "localperl" of your home directory.

If you run into any trouble whatsoever or you need to install a customized
version of Perl, you should read the detailed instructions in the "INSTALL"
file that came with this distribution. Additionally, there are a number of
"README" files with hints and tips about building and using Perl on a wide
variety of platforms, some more common than others.

Once you have Perl installed, a wealth of documentation is available to you
through the 'perldoc' tool. To get started, run this command:

```
perldoc perl
```

IF YOU RUN INTO TROUBLE

Perl is a large and complex system that's used for everything from
knitting to rocket science. If you run into trouble, it's quite
likely that someone else has already solved the problem you're
facing. Once you've exhausted the documentation, please report bugs to us
at the GitHub issue tracker at https://github.com/Perl/perl5/issues

While it was current when we made it available, Perl is constantly evolving
and there may be a more recent version that fixes bugs you've run into or
adds new features that you might find useful.

You can always find the latest version of perl on a CPAN (Comprehensive Perl
Archive Network) site near you at https://www.cpan.org/src/

If you want to submit a simple patch to the perl source, see the "SUPER
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019
Exceptions

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There are a few modules whose licensing or Copyright text is different.

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code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans
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perl/lib/5.40.2/x86_64-linux-thread-multi/CORE/perly.h

```
/* A Bison parser, made by GNU Bison 3.6.4.  */

/* Bison interface for Yacc-like parsers in C

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/* As a special exception, you may create a larger work that contains
   part or all of the Bison parser skeleton and distribute that work
   under terms of your choice, so long as that work isn't itself a
   parser generator using the skeleton or a modified version thereof
   as a parser skeleton.  Alternatively, if you modify or redistribute
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   special exception, which will cause the skeleton and the resulting
   Bison output files to be licensed under the GNU General Public
   License without this special exception.

   This special exception was added by the Free Software Foundation in
   version 2.2 of Bison.  */

/* DO NOT RELY ON FEATURES THAT ARE NOT DOCUMENTED in the manual,
   especially those whose name start with YY_ or yy_.  They are
   private implementation details that can be changed or removed.  */
```

perl/lib/5.40.2/x86_64-linux-thread-multi/CORE/ebcdic_tables.h
---
```
/* This file contains definitions for various tables used in EBCDIC handling.
 * More info is in utfebcdic.h
 *
```

* Some of the tables are adapted from
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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

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The :mod:`!_random` C extension underlying the :mod:`random` module
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the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Sockets

The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

XML Remote Procedure Calls

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The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion of C doubles to and from strings, is derived
from the file of the same name by David M. Gay, currently available
from https://web.archive.org/web/20220517033456/http://www.netlib.org/fp/dtoa.c.
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zlib

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cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based
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libmpdec

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W3C C14N test suite

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Audioop

The audioop module uses the code base in g771.c file of the SoX project.
https://sourceforge.net/projects/sox/files/sox/12.17.7/sox-12.17.7.tar.gz

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asyncio

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
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Mersenne Twister

The :mod:`!_random` C extension underlying the :mod:`random` module
includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)
Sockets

The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and
:c:func:`!getnameinfo`, which are coded in separate source files from the WIDE
Project, https://www.wide.ad.jp/. ::
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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C
version is still 5 times faster, though.
- Arguments more compliant with Python standard
XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::
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Select kqueue

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SipHash24

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of
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     Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion of C doubles to and from strings, is derived
from the file of the same name by David M. Gay, currently available
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OpenSSL

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jloup@gzip.org madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based
on the cfuhash project::

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libmpdec

The :mod:`!_decimal` C extension underlying the :mod:`decimal` module
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W3C C14N test suite

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mimalloc

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asyncio

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5.1 pip vendored dependency list (from pip/_vendor/vendor.txt)
CacheControl==0.14.4
distlib==0.4.0
distro==1.9.0
msgpack==1.1.2
packaging==26.0
platformdirs==4.5.1
pyproject-hooks==1.2.0
requests==2.32.5
  certifi==2026.1.4
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setuptools==70.3.0
tomli==2.3.0
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5.2 pip dist-info license files (verbatim)

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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The Scala 3 compiler is also known as Dotty. The Dotty compiler
frontend has been developed since November 2012 by Martin Odersky. It
is expected and hoped for that the list of contributors to the
codebase will grow quickly. Dotty draws inspiration and code from the
original Scala 2 compiler "nsc", which is still developed at scala/scala [1].

The majority of the Dotty codebase is new code, with the exception of the
components mentioned below. We have for each component tried to come up with a
list of the original authors in the scala/scala [1] codebase. Apologies if some
major authors were omitted by oversight.

* dotty.tools.dotc.ast: The syntax tree handling is mostly new, but some
elements, such as the idea of tree copiers and the `TreeInfo` module,
were adopted from scala/scala [1]. The original authors of these parts
include Martin Odersky, Paul Phillips, Adriaan Moors, and Matthias Zenger.

* dotty.tools.dotc.classpath: The classpath handling is taken mostly as is
from scala/scala [1]. The original authors were Grzegorz Kossakowski,

Michał Pociecha, Lukas Rytz, Jason Zaugg and others.

* dotty.tools.dotc.config: The configuration components were adapted and extended from scala/scala [1]. The original sources were authored by Paul Phillips with contributions from Martin Odersky, Miguel Garcia and others.

* dotty.tools.dotc.core: The core data structures and operations are mostly new. Some parts (e.g. those dealing with names) were adapted from scala/scala [1]. These were originally authored by Martin Odersky, Adriaan Moors, Jason Zaugg, Paul Phillips, Eugene Burmako and others.

* dotty.tools.dotc.core.pickling: The classfile readers were adapted from the current Scala compiler. Original authors were Martin Odersky, Iulian Dragos, Matthias Zenger and others.

* dotty.tools.dotc.parsing: The lexical and syntactic analysis components were adapted from the current Scala compiler. They were originally authored by Martin Odersky, Burak Emir, Paul Phillips, Lex Spoon, Sean McDirmid and others.

* dotty.tools.dotc.profile: The per-phase profiling support is taken mostly as is from scala/scala. The original author was Mike Skells.

* dotty.tools.dotc.reporting: Adapted from scala/scala [1] with some heavy modifications. They were originally authored by Matthias Zenger, Martin Odersky, and others.

* dotty.tools.dotc.typer: This is new code except for some minor components (e.g. the ConstantFolder). It uses however many solution details that have been developed over time by many people, including Jason Zaugg, Adriaan Moors, Lukas Rytz, Paul Phillips, Grzegorz Kossakowski, and others.

* dotty.tools.dotc.util: The utilities package is a mix of new and adapted components. The files in scala/scala [1] were originally authored by many people, including Paul Phillips, Martin Odersky, Sean McDirmid, and others.

* dotty.tools.io: The I/O support library was adapted from current Scala compiler. Original authors were Paul Phillips and others.

* dotty.test.DottyBytecodeTest: Is an adaptation of the bytecode testing from scala/scala [1]. It has been reworked to fit the needs of dotty. Original authors include: Adrian Moors, Lukas Rytz, Grzegorz Kossakowski, Paul Phillips.

* dotty.tools.dotc.sbt and everything in sbt-bridge: The sbt compiler phases are based on [2] which attempts to integrate the sbt phases into scalac and is itself based on the compiler bridge in sbt 0.13 [3], but has been heavily adapted and refactored. Original authors were Mark Harrah, Grzegorz Kossakowski, Martin Duhemm, Adriaan Moors and others.

* dotty.tools.dotc.plugins: Adapted from scala/scala [1] with some modifications. They were originally authored by Lex Spoon, Som Snytt, Adriaan Moors, Paul Phillips and others.

* dotty.tools.scaladoc: The Scaladoc documentation utility ships some

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docs/js/. Please refer to the license header of the concerned files for
details.

* dotty.tools.dotc.coverage: Coverage instrumentation utilities have been
adapted from the scoverage plugin for scala 2 [4], which is under the
Apache 2.0 license.

* dooty.tools.pc: Presentation compiler implementation adapted from
scalameta/metals [5] mtags module, which is under the Apache 2.0 license.

* The Dotty codebase contains parts which are derived from
the ScalaPB protobuf library [6], which is under the Apache 2.0 license.

[1] https://github.com/scala/scala
[2] https://github.com/adriaanm/scala/tree/sbt-api-consolidate/src/compiler/scala/tools/sbt
[3] https://github.com/sbt/sbt/tree/0.13/compile/interface/src/main/scala/xsbt
[4] https://github.com/scoverage/scalac-scoverage-plugin
[5] https://github.com/scalameta/metals
[6] https://github.com/scala/scala3/pull/5783/files

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(swagger-parser-core, swagger-parser-safe-url-resolver, swagger-parser-v2-converter, swagger-parser-v3)

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 ~
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 -->
<additionalHeaders>
        <java_class_style>
                <firstLine>/*</firstLine>
                <beforeEachLine> * </beforeEachLine>
                <endLine> */</endLine>
                <!--<afterEachLine></afterEachLine>-->
```

```
                    <!--skipLine></skipLine-->
                    <firstLineDetectionPattern>(\s|\t)*/\*.*$</firstLineDetectionPattern>
                    <lastLineDetectionPattern>.*\*/(\s|\t)*$</lastLineDetectionPattern>
                    <allowBlankLines>false</allowBlankLines>
                    <isMultiline>true</isMultiline>
                    <padLines>false</padLines>
            </java_class_style>
  </additionalHeaders>

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   -->
  <additionalHeaders>
          <xml_file_style>
                    <firstLine><![CDATA[<!--]]></firstLine>
                    <beforeEachLine>  ~ </beforeEachLine>
                    <endLine><![CDATA[  -->]]></endLine>
                    <!--<afterEachLine></afterEachLine>-->
                    <skipLine><![CDATA[^<\?xml.*>$]]></skipLine>
                    <firstLineDetectionPattern><![CDATA[(\s|\t)*<!--
.*$]]></firstLineDetectionPattern>
                    <lastLineDetectionPattern><![CDATA[.*--
>(\s|\t)*$]]></lastLineDetectionPattern>
                    <allowBlankLines>false</allowBlankLines>
                    <isMultiline>true</isMultiline>
                    <padLines>false</padLines>
          </xml_file_style>
  </additionalHeaders>

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log4j-core

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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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PCG Random Number Generation for C.

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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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.

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The ziggurat methods were derived from Julia.

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dateutil - Extensions to the standard Python datetime module.

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pytz

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tzdata

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klib

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dragon4.c|h h contains a modified version of Ryan Juckett's Dragon4 implementation, obtained from https://www.ryanjuckett.com, which has been ported from C++ to C and which has modifications specific to printing floats in numpy.

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Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
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https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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Name: 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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PCG Random Number Generation for C.

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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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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Name: Julia

The ziggurat methods were derived from Julia.

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This component utilizes components derived from cctbx, available at
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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<= x <= 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'.

License for the Python wrapper
==============================

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DOP library consisting Dormand-Prince (4)5 and 8(5,3) integrators, is a C translation of the Fortran code written by Ernst Hairer, and Gerhard Wanner with the original descriptions below.

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   NUMERICAL SOLUTION OF A SYSTEM OF FIRST 0RDER
   ORDINARY DIFFERENTIAL EQUATIONS  Y'=F(X,Y).
   THIS IS AN EXPLICIT RUNGE-KUTTA METHOD OF ORDER 8(5,3)
   DUE TO DORMAND & PRINCE (WITH STEPSIZE CONTROL AND
   DENSE OUTPUT)

   AUTHORS: E. HAIRER AND G. WANNER
         UNIVERSITE DE GENEVE, DEPT. DE MATHEMATIQUES
         CH-1211 GENEVE 24, SWITZERLAND
         E-MAIL:  Ernst.Hairer@math.unige.ch
               Gerhard.Wanner@math.unige.ch

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         UNIVERSITE DE GENEVE, DEPT. DE MATHEMATIQUES
         CH-1211 GENEVE 24, SWITZERLAND
         E-MAIL:  Ernst.Hairer@math.unige.ch
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---

tensorflow 2.21.0 has dependencies on following libraries:

tensorflow needs "absl-py"
"absl-py" doesn't have any dependencies
tensorflow needs "astunparse"
"astunparse" needs "six"
"six" doesn't have any dependencies
"astunparse" needs "wheel"
"wheel" needs "packaging"
"packaging" doesn't have any dependencies
tensorflow needs "flatbuffers"
"flatbuffers" doesn't have any dependencies
tensorflow needs "gast"
"gast" doesn't have any dependencies
tensorflow needs "google-pasta"
"google-pasta" needs "six"
"six" doesn't have any dependencies
tensorflow needs "grpcio"
"grpcio" needs "typing_extensions"
"typing_extensions" doesn't have any dependencies
tensorflow needs "h5py"
"h5py" needs "numpy"
"numpy" doesn't have any dependencies
tensorflow needs "keras"
"keras" needs "absl-py"
"absl-py" doesn't have any dependencies
"keras" needs "h5py"
"h5py" needs "numpy"
"numpy" doesn't have any dependencies
"keras" needs "ml_dtypes"
"ml_dtypes" needs "numpy"
"numpy" doesn't have any dependencies
"ml_dtypes" needs "numpy"
"numpy" doesn't have any dependencies
"ml_dtypes" needs "numpy"
"numpy" doesn't have any dependencies
"keras" needs "namex"
"namex" doesn't have any dependencies
"keras" needs "numpy"
"numpy" doesn't have any dependencies
"keras" needs "optree"
"optree" needs "typing_extensions"
"typing_extensions" doesn't have any dependencies
"keras" needs "packaging"

"packaging" doesn't have any dependencies
"keras" needs "rich"
"rich" needs "markdown-it-py"
"markdown-it-py" needs "mdurl"
"mdurl" doesn't have any dependencies
"rich" needs "Pygments"
"Pygments" doesn't have any dependencies
tensorflow needs "libclang"
"libclang" doesn't have any dependencies
tensorflow needs "ml_dtypes"
"ml_dtypes" needs "numpy"
"numpy" doesn't have any dependencies
"ml_dtypes" needs "numpy"
"numpy" doesn't have any dependencies
"ml_dtypes" needs "numpy"
"numpy" doesn't have any dependencies
tensorflow needs "numpy"
"numpy" doesn't have any dependencies
tensorflow needs "opt_einsum"
"opt_einsum" doesn't have any dependencies
tensorflow needs "packaging"
"packaging" doesn't have any dependencies
tensorflow needs "protobuf"
"protobuf" doesn't have any dependencies
tensorflow needs "requests"
"requests" needs "certifi"
"certifi" doesn't have any dependencies
"requests" needs "charset-normalizer"
"charset-normalizer" doesn't have any dependencies
"requests" needs "idna"
"idna" doesn't have any dependencies
"requests" needs "urllib3"
"urllib3" doesn't have any dependencies
tensorflow needs "setuptools"
"setuptools" doesn't have any dependencies
tensorflow needs "six"
"six" doesn't have any dependencies
tensorflow needs "termcolor"
"termcolor" doesn't have any dependencies
tensorflow needs "typing_extensions"
"typing_extensions" doesn't have any dependencies
tensorflow needs "wrapt"
"wrapt" doesn't have any dependencies

---

package_name: absl-py
license_type: Apache-2.0
license_text:

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license_text:
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license_text:

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license_type: Apache-2.0
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==========

Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
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software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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license_text:
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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license_text:
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Name: libquadmath
Files: numpy/.dylibs/libquadmath*.so
Description: dynamically linked to files compiled with gcc

Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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license_type: Apache-2.0
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license_text:
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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Chris Colbert began the Kiwi project in December 2013 in an effort to create a blisteringly fast UI constraint solver. Chris is still the project lead.

The Nucleic Development Team is the set of all contributors to the Nucleic project and its subprojects.

The core team that coordinates development on GitHub can be found here: http://github.com/nucleic. The current team consists of:

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Alex Dowad
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Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
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Bartosz Brachaczek
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
https://github.com/client9/stringencoders

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pycparser -- A C parser in Python

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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2.1.1	2.1+2.0.1	2001	PSF	yes
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Files: matplotlib/mpl-data/fonts/ttf/cm*.ttf matplotlib/mpl-data/fonts/afm/cm*.afm
Description: Computer Modern Fonts in PostScript Type 1 and TrueType font formats.
License: BaKoMa Fonts Licence
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2) BaKoMa-AMS (1.2/19-Jan-95)
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Name: ColorBrewer Color Schemes
Files: lib/matplotlib/_cm.py
Description: Color schemes from ColorBrewer
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Description: Courier 10 font, used in tests.
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Description: Font rendering library
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The gzip module uses the zlib license (see `src/gzip/zlib.h`) which too is compatible to the above two licenses.

The files `src/autofit/ft-hb.c` and `src/autofit/ft-hb.h` contain code taken almost verbatim from the HarfBuzz file `hb-ft.cc`, which uses the 'Old MIT' license, compatible to the above two licenses.

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Files: matplotlib/ft2font.*.so
Description: Text shaping library
License: MIT-Modern-Variant

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Files: lib/matplotlib/backends/web_backend/js/mpl.js
Description: Minimal polyfill for the ResizeObserver API
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Arlington, MA

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AUTHOR

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
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Aleksandr Zhelezniak <lekan1992@gmail.com>
Amine Touzani <ttzn.dev@gmail.com>
Andre Brait <andrebrait@gmail.com>
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Emil Lundberg <emil@yubico.com>
Enrique da Costa Cambio <enrique.dacostacambio@gmail.com>
Jacob Middag <jacob@gaddim.nl>

James Yoo <jyoo980@gmail.com>
Jan Matèrne <jhm@apache.org>
Jan Rieke <it@janrieke.de>
Jappe van der Hel <jappe.vanderhel@gmail.com>
John Paul Taylor II <johnpaultaylorii@gmail.com>
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com.google.flogger flogger

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com.google.flogger flogger-system-backend

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org.apache.logging.log4j  log4j-core

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org.checkerframework checker-compat-qual

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 *
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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This is a Java port of Daniel Lemire's fast_float project.
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for drools-model/drools-mvel-parser/src/main/javacc/mvel.jj

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for drools-model/drools-canonical-model/src/main/java/org/drools/model/bitmask/OpenBitSet.java
drools-util/src/main/java/org/drools/util/bitmask/OpenBitSet.java

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes

2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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mcp-json-jackson3

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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
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It is currently developed by a community of developers.

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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snakeyaml-engine

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reactive-streams

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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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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PCG Random Number Generation for C.

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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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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C.B. Barber
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From: Agner Fog <agner@agner.org>
Date: Wed, Jul 22, 2020 at 8:54 PM
Subject: Re: Add BiasedUrn to SciPy?
To: Matt Haberland <mhaberla@calpoly.edu>
Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project
are available here:
https://www.agner.org/random/stocc.zip
You have my permission to use it in SciPy under the new BSD license.
Best regards,
Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:
Hi Agner, I'm a maintainer of the Python scientific computing library SciPy,
and I'm working on improving the capabilities of our statistics subpackage
scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral
hypergeometric distributions, but these look quite challenging to implement.
We found your BiasedUrn package, and we'd love to wrap it, but we can't
include GPL-3 licensed code under our BSD-new license. Would you consider
re-licensing BiasedUrn under a more permissive license, such as BSD-new or
MIT, so we can include it in SciPy?
Thank you for considering it!
Matt
--
Matt Haberland
Assistant Professor
BioResource and Agricultural Engineering
08A-3K, Cal Poly

Name: UNU.RAN
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unuran-1.8.1/autoconf/depcomp
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unuran-1.8.1/examples/Makefile.am
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unuran-1.8.1/examples/example0.c
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unuran-1.8.1/examples/example1_str.c

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unuran-1.8.1/scripts/win32/build.sh
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unuran-1.8.1/src/README
unuran-1.8.1/src/distr/Makefile.am
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UNU.RAN relies on a modified version of the library Cephes, see ./src/src/specfunct/cephes_source.h

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Name: GCC runtime library
Files: numpy/.dylibs/libgfortran*, numpy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
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Description: dynamically linked to files compiled with gcc
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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pycparser -- A C parser in Python

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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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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