# Oracle® Exadata Database Machine

## Licensing Information User's Guide

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# Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs.

If you have a question about your licensing needs, contact your Oracle sales representative, contact the License Management Services representative at http://www.oracle.com/us/corporate/license-management-services/index.html, or refer to the resources listed in “Related Documents” for more information.


- Audience
- Related Documents


## Audience

This book is intended for all purchasers of Oracle Exadata Database Machine.

## Related Documents

For more information, see the following Oracle resources:

- *Oracle Exadata System Software User's Guide*
- *Oracle Exadata Database Machine System Overview*
- *Oracle Exadata Database Machine Installation and Configuration Guide*
- *Oracle Exadata Database Machine Maintenance Guide*
- *Oracle Exadata Database Machine Extending and Multi-Rack Cabling Guide*
- Licensing Information



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1

# Licensing Information

- The Oracle Exadata System Software license includes the use of Exadata Hybrid Columnar Compression along with other features documented in *Oracle Exadata System Software User's Guide*.
- Oracle Database and options are licensed separately. Refer to *Oracle AI Database Licensing Information User Manual* for additional information.
- Oracle Database In-Memory Option must be licensed to enable the following Exadata features: .
  - In-Memory Columnar Caching on Storage Servers
  - In-Memory Columnar Speed JSON Query
  - Transparent Cross-Tier Scan
- Oracle Exadata Storage Server Extended (XT) may be used for archival storage purposes without licensing Oracle Exadata System Software. When using XT storage without Oracle Exadata System Software:
  - Exadata Hybrid Columnar Compression (HCC) is enabled.
  - Other smart storage features, such as Exadata Smart Scan, are disabled.

  Optionally, you can procure Oracle Exadata System Software licenses and enable Exadata smart storage features on XT servers. See also Enabling Smart Scan on Exadata Extended (XT) Storage Servers.


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# 2
# Restricted Licensing

This chapter contains information about restricted licensing options for Oracle Exadata Database Machine.

> **Note**
>
> The following options are complimentary and can be used in conjunction with each other.

- Capacity-On-Demand
  You can reduce the number of active cores on your Exadata database servers to lower the initial software licensing cost, but this does not change the hardware cost.
- Trusted Partitions
  Trusted Partitions allow you to use virtual machines (VMs) to limit the required number of processor licenses for Oracle software on Oracle Exadata Database Machine.

## 2.1 Capacity-On-Demand

You can reduce the number of active cores on your Exadata database servers to lower the initial software licensing cost, but this does not change the hardware cost.

Capacity-on-demand (CoD) refers to an Exadata database server that is installed with a subset of its cores disabled so that the database software license cost can be reduced. During initial system configuration, you can set the number of active cores (within applicable limits) using Oracle Exadata Deployment Assistant (OEDA). The number of active cores can be increased at a later time, when more capacity is needed. However, after initial installation, the total active core count may only be increased, but not decreased. Capacity-on-demand does not apply to Oracle Exadata storage server cores.

After initial installation active cores may only be deactivated when you are adding database servers to an Exadata configuration and redistributing the active cores in order to maintain a balanced cluster configuration. In that case, the total number of active cores across all database servers cannot decrease and the end state must comply with the capacity-on-demand restrictions. For example, consider an Exadata X10M system with 96 active cores on two database servers. If you want to add a third database server and increase the total core count to 120 cores, then you can reduce the number of active cores from 48 to 40 on each of the first two database servers, and install the new database server with 40 active cores.

> **Note**
>
> Oracle recommends that all database servers in a cluster have the same number of active cores.


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If you use capacity-on-demand in conjunction with VMs, the VM server (OVM Management Domain [Dom0] or KVM Host) reserves one core on each physical CPU. For example, on an Exadata X9M-2 database server with two physical CPUs and a total of 64 CPU cores, a maximum of 62 cores can be used by the VMs. The CPU cores reserved for the VM server do not require Oracle Database licenses.

It is your responsibility to acquire the required software licenses. For steps on how to increase the number of active cores, refer to *Oracle Exadata Database Machine Maintenance Guide*.

> **Tip**
>
> When you run Oracle Exadata Deployment Assistant (OEDA) to perform initial configuration of your Exadata system, you must specify whether or not you are using capacity-on-demand, and if so, the number of cores that you want to activate on your system. Because it is not possible to decrease the total number of active cores after installation, it is recommended that you review your licensing plan to ensure that you specify the correct number of active cores that you intend to license and use.

- Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine
  Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- Monitoring Tool Requirement
  To use the capacity-on-demand feature, the Exadata system must be running an approved monitoring tool so that the number of active cores can be validated.

## 2.1.1 Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine

Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.

Note the following restrictions regarding capacity-on-demand:

- For all Eighth Rack configurations, the minimum number of cores that must be enabled is 8 per database server.
- For X11M-Z systems the minimum is 8 cores per database server.
- For other X5-2, X6-2, X7-2, X8-2, X8M-2, X9M-2, X10M, and X11M systems, the minimum number of cores that must be enabled is 14 per database server.
- For X5-8, X6-8, X7-8, X8-8, X8M-8, and X9M-8 systems, the minimum number of cores that must be enabled is 56 per database server.
- For X4-2 systems, the minimum number of cores that must be enabled is 12 per database server. The X4-2 Eighth Rack configuration cannot use capacity-on-demand.
- For X4-8 systems, the minimum number of cores that must be enabled is 48 per database server.
- Additional cores can be licensed and enabled in 2-core increments on two-socket servers (X4-2 and later), and in 8-core increments on eight-socket servers (X4-8 and later).
- Within the same Exadata system, each database server can be licensed to a different number of cores, but each server in the same cluster should have the same number of active cores to accommodate a cluster fail over without significant performance impact.


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- CPU oversubscription for KVM guests is not permitted when capacity-on-demand is used on Exadata X11M or X10M KVM hosts. CPU oversubscription is only allowed on Exadata X11M or X10M when all CPU cores are active on the KVM hosts.

**Related Topics**

- Increasing the Number of Active Cores on Database Servers

### 2.1.2 Monitoring Tool Requirement

To use the capacity-on-demand feature, the Exadata system must be running an approved monitoring tool so that the number of active cores can be validated.

The monitoring tool must be installed within three months of installation. To meet this requirement, you can do any of the following:

- Purchase the Oracle technical support services necessary to enable eligibility for Oracle Platinum Services, and then continuously maintain those services.
- Install, and then continuously utilize Oracle Enterprise Manager.

  The base installation collects appropriate information from the server system, including the number of active cores. No add-on packs need to be purchased. The rules for using Oracle Enterprise Manager are the same as those that apply to Oracle Trusted Partitions.

**Related Topics**

- Oracle Platinum Services web page
- Oracle Platinum Services Policies
- Oracle Hardware and Systems Support policies
- Oracle Exadata Technical Support policies
- Trusted Partitions
  Trusted Partitions allow you to use virtual machines (VMs) to limit the required number of processor licenses for Oracle software on Oracle Exadata Database Machine.
- Oracle Enterprise Manager 12c,13c Monitoring Exadata Capacity-On-Demand Licensing in disconnected mode (Doc ID 2008418.1)

## 2.2 Trusted Partitions

Trusted Partitions allow you to use virtual machines (VMs) to limit the required number of processor licenses for Oracle software on Oracle Exadata Database Machine.

> **Note**
>
> Trusted Partitions are supported only on 2-socket Exadata database servers. Because virtualization is not supported on 8-socket Exadata database servers, Trusted Partitions are not available for 8-socket Exadata systems.

On Oracle Exadata Database Machine, you can use a virtual machine (VM) as a Trusted Partition. In this case, any Oracle software running in the VM needs to be licensed according to the CPU resources used by the VM.

When licensing Oracle programs in a Trusted Partition, two virtual CPUs (vCPUs) are counted as equivalent to one physical CPU core. Also, under Oracle processor licensing rules, one


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processor license covers two physical CPU cores. Therefore, one processor license is required to cover every four VM vCPUs.

Each Exadata database server is also subject to a minimum licensing requirement for Oracle Database Enterprise Edition, which is equivalent to the minimum number of active cores for capacity-on-demand. The minimum licensing requirement does not apply to other Oracle software, such as database options and Enterprise Manager packs, which are licensed according to usage.

For example, consider an Exadata X10M system with two database servers. Each database server contains two physical CPUs with a total of 192 physical CPU cores. Furthermore, assume that the system runs 2 databases (D1 and D2) in separate VM clusters with the following characteristics:

- Both databases use Oracle Database Enterprise Edition with the Oracle Real Application Clusters (Oracle RAC) and Oracle Partitioning options.
- D2 also uses the Oracle Advanced Security option.
- On each server, D1 runs in a VM that uses 32 vCPUs, and D2 runs in another VM that uses 24 vCPUs.

In this case, using Trusted Partitions, Oracle Database Enterprise Edition, Oracle Real Application Clusters (Oracle RAC), and Oracle Partitioning must be licensed for 112 vCPUs (2 servers, each with 32 vCPUs + 24 vCPUs), which requires 28 processor licenses for each software item.

Also, the Oracle Advanced Security option used by D2 must be licensed for 48 vCPUs (2 servers, each with 24 vCPUs), which requires 12 processor licenses.

To use Trusted Partitions on Oracle Exadata Database Machine, you must be running Oracle Exadata System Software 12.1.2.1.0 or later, and you must continually use Oracle Enterprise Manager to monitor the system and verify the configuration.

**Related Topics**

- Oracle Partitioning Policy
- Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine
  Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- How to Monitor Trusted Partitions. (My Oracle Support Doc ID 2814712.1)


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# 3
# Third-Party Product Licenses

This chapter contains the licenses for the third-party products that are included with Oracle Exadata Database Machine.

- Third-Party Product Licenses for Oracle Exadata System Software
  This section contains the licenses for the third-party products included with Oracle Exadata System Software.
- Third-Party Product Licenses for Oracle Database
- Third-Party Product Licenses for Oracle Exadata Database Machine and Storage Expansion Rack Hardware
- Third-Party Product Licenses for Java

## 3.1 Third-Party Product Licenses for Oracle Exadata System Software

This section contains the licenses for the third-party products included with Oracle Exadata System Software.

- angus-mail, v. 2.0.4 (Oracle)
- angus-mail, v. 2.0.3 (Eclipse Foundation)
- The Apache Software License, Version 1.1
- Bsafe (Bsafe Crypto-C.)
- Byacc, v. 1.15 and earlier
- Byte Code Engineering Library (BCEL) v. 5
- Cryptix
- Document Object Model (DOM) v. Level 3
- Expat, v 2.2.0
- FastCGI Developer's Kit, v. 2.4.2 (Open Market, Inc.)
- InfoZip, v. 5.51
- Intel Integrated Performance Primitives Redistributables, v. 2020.0.166 (Intel)
- IPMItool, v1.8.15
- isa-l, v. 2.28 (Intel)
- jackson-annotations, v. 2.19.2 (FasterXML, LLC)
- jackson-annotations, v. 2.19.1 (FasterXML, LLC)
- jackson-annotations, v. 2.19.0 (FasterXML, LLC)
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- jackson-annotations, v. 2.13.1 (FasterXML, LLC)
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- jackson-core, v. 2.19.2 (FasterXML, LLC)
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- Jakarta Mail, v. 2.1.2 (Oracle)
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- Jakarta XML Binding RI (JAXB), v. 4.0.5 (Eclipse Foundation)
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- JavaScript Extension Toolkit (JET), v. 18.1.0 (Oracle)
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- JavaScript Extension Toolkit (JET), v. 7.2.0 (Oracle)
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- Jetty, v. 11.0.24 (Eclipse Foundation)


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- JSch, v. 0.1.50 and v. 0.1.44
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- JLine, v. 3.30.5 (Marc Prud'hommeaux)
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- Mina SSHD, v. 2.13.2 (The Apache Software Foundation)
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- Mina SSHD, v. 2.8.0 (The Apache Software Foundation)
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- Mina SSHD-common, v. 2.15.0 (The Apache Software Foundation)
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- Nginx, v. 1.24.0-1.0.1 (Nginx)
- nginx, v. 1.22.1 (Nginx)
- nginx, v. 1.18.0-3.0.1 (Igor Sysoev; Nginx)
- ngix, v. 1.17.9 (Ngix)


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- OpenSSL, v. 3.0.12 (OpenSSL Project)
- OpenSSL, v. 1.1.1k-9 (OpenSSL Project)
- OpenSSL, v. 1.0.2k-25 (OpenSSL Project)
- Oracle Linux
- Ponder, v. 2.1.1 (Tegesoft)
- Python, v. 3.6.8-39 (Python Software Foundation)
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- Python, v. 3.6.8-18.0.5 (Python Software Foundation)
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- Rapid JSON, v. 1.1.0-47b837e (Milo Yip)
- rdma-core, v. 53.0-1.0.3 (Kernel.org)
- rdma-core, v. 34.0-1.0.8 (Kernel.org)
- rdma-core, v. 34.0-1.0.5 (Kernel.org)
- rdma-core, v. 17.1-1.0.7 (Kernel.org)
- Regexp, Regular Expression Package v. 1.2
- SAX v. 2.0.1
- Selenium, v. 3.14
- Selenium, v. 3.4.0
- SNMP4J, v. 3.9.6 (SNMP4J.org)
- SNMP4J, v. 3.9.2 (SNMP4J.org)
- SNMP4J, v. 3.9.1 (SNMP4J.org)
- SNMP4J, v. 3.9.0 (SNMP4J.org)
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- UnZip, v. 6.0-47.0.1 (Info-ZIP)


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- UnZip, v. 6.0-46.0.1 (Info-ZIP)
- UnZip, v. 6.0-24 (Info-ZIP)
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```
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  version 1.2.11, January 15th, 2017

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  The data format used by the zlib library is described by RFCs (Request for
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  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

---

```
/* adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-2011, 2016 Mark Adler
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 */
```

---

```
/* crc32.c -- compute the CRC-32 of a data stream
```


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```
 * Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
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 *
 * Thanks to Rodney Brown  for his contribution of faster
 * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
 * tables for updating the shift register in one step with three exclusive-ors
 * instead of four steps with four exclusive-ors.  This results in about a
 * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
 */
```

---

```
/* deflate.c -- compress data using the deflation algorithm
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 */
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---

```
/* inflate.c -- zlib decompression
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```

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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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## 3.1.22 jackson-annotations, v. 2.16.1 (FasterXML, LLC)

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# 3.1.23 jackson-annotations, v. 2.15.3 (FasterXML, LLC)

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## 3.1.24 jackson-annotations, v. 2.15.2 (FasterXML, LLC)

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


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```
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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# 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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## 3.1.58 jackson-databind, v. 2.13.2.2 (FasterXML, LLC)

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[INFO] --- maven-dependency-plugin:3.1.2:tree (default-cli) @ jackson-databind ---
[INFO] com.fasterxml.jackson.core:jackson-databind:bundle:2.13.2.2
[INFO] +- com.fasterxml.jackson.core:jackson-annotations:jar:2.13.2:compile
[INFO] +- com.fasterxml.jackson.core:jackson-core:jar:2.13.2:compile
[INFO] +- org.powermock:powermock-core:jar:2.0.0:test
[INFO] |  +- org.powermock:powermock-reflect:jar:2.0.0:test
[INFO] |  |  \- org.objenesis:objenesis:jar:3.0.1:test
[INFO] |  +- org.javassist:javassist:jar:3.24.0-GA:test
[INFO] |  +- net.bytebuddy:byte-buddy:jar:1.9.3:test
[INFO] |  \- net.bytebuddy:byte-buddy-agent:jar:1.9.3:test
[INFO] +- org.powermock:powermock-module-junit4:jar:2.0.0:test
[INFO] |  +- org.powermock:powermock-module-junit4-common:jar:2.0.0:test
[INFO] |  \- org.hamcrest:hamcrest-core:jar:1.3:test
[INFO] +- org.powermock:powermock-api-mockito2:jar:2.0.0:test
[INFO] |  +- org.powermock:powermock-api-support:jar:2.0.0:test
[INFO] |  \- org.mockito:mockito-core:jar:2.23.0:test
[INFO] +- javax.measure:jsr-275:jar:0.9.1:test
[INFO] \- junit:junit:jar:4.13.1:test
```

## 3.1.59 jackson-databind, v. 2.11.2 (FasterXML, LLC)

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## 3.1.61 jackson-jaxrs-base, v. 2.10.3 (FasterXML, LLC)

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## 3.1.73 JavaScript Extension Toolkit (JET), v. 17.1.0 (Oracle)

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JS Signals <http://millermedeiros.github.com/js-signals/>
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JS Signals <http://millermedeiros.github.com/js-signals/>
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## 3.1.75 JavaScript Extension Toolkit (JET), v. 16.0.0 (Oracle)

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JS Signals <http://millermedeiros.github.com/js-signals/>
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## 3.1.77 JavaScript Extension Toolkit (JET), v. 15.1.11 (Oracle)

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# 3.1.80 JavaScript Extension Toolkit (JET), v. 13.1.11 (Oracle)

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JS Signals
Author: Miller Medeiros
Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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# 3.1.83 JavaScript Extension Toolkit (JET), v. 11.0.0 (Oracle)

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 *
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 */

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* http://jqueryui.com
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js/libs/proj4js/dist/proj4.js  Proj4js                         2.3.14
scss/oj/v3.1.0/3rdparty/normalize/normalize.scss            MIT    1.0
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=== Knockout.js 3.4.0 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== jsTree 1.0-rc3 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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## 3.1.90 JavaScript Extension Toolkit (JET) v. 2.0.2, 2.1.0, 2.2.0

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== Select2.js ===

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=== ES6-Promise v1.0.0 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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/*! Hammer.JS - v2.0.4 - 2014-09-28

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 * java.sun.security.ssl

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 * org.eclipse.jetty.toolchain:jetty-schemas

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 * java.sun.security.ssl

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 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
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```
 * org.apache.tomcat:tomcat-util
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 * java.sun.security.ssl

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 * org.apache.tomcat:tomcat-jasper
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 * org.apache.tomcat:tomcat-jasper-el
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module is selected.

 * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html


------
OW2

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


------
Apache

The following artifacts are ASL2 licensed.

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


------
MortBay

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

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

org.mortbay.jasper:apache-el
```


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


------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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## 3.1.120 JLine, v. 3.30.5 (Marc Prud'hommeaux)

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## 3.1.126 JLine, v. 3.21.0 (Marc Prud'hommeaux)

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## 3.1.128 JLine, v. 3.14.0 (Marc Prud'hommeaux)

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org.fusesource.jansi version 1.18
org.apache.sshd 2.1 to 2.4
org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4
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## 3.1.135 jQuery Timepicker, v. 1.13.11 (Jon Thornton)

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## 3.1.139 keepalived, v. 2.1.5-11.el8_10 (Alexandre Cassen)

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The main goal of this project is to provide simple and robust facilities
for loadbalancing and high-availability to Linux system and Linux based
infrastructures. Loadbalancing framework relies on well-known and widely
used Linux Virtual Server (IPVS) kernel module providing Layer4 loadbalancing.
Keepalived implements a set of checkers to dynamically and adaptively maintain
and manage loadbalanced server pool according their health. On the other hand
high-availability is achieved by the Virtual Router Redundancy Protocol (VRRP).
VRRP is a fundamental brick for router failover. In addition, Keepalived
implements a set of hooks to the VRRP finite state machine providing low-level
and high-speed protocol interactions. In order to offer fastest network
failure detection, Keepalived implements the Bidirectional Forwarding Detection
(BFD) protocol. VRRP state transition can take into account BFD hints to drive
fast state transition. Keepalived frameworks can be used independently or all
together to provide resilient infrastructures.
Keepalived implementation is based on an I/O multiplexer to handle a
strong multi-threading framework. All the events process use this I/O
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multiplexer.
To build keepalived from the git source tree, you will need to have
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 *
 * Part:        DNS checker
 *
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## 3.1.140 keepalived, v. 2.1.5-9 (Alexandre Cassen)

```
AUTHOR:
Alexandre Cassen, <acassen@linux-vs.org>

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The README.md also had licensing information:

keepalived: Loadbalancing & High-Availability
=============================================

[![Keepalived CI](https://github.com/acassen/keepalived/actions/workflows/build.yml/
```


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```
badge.svg)](https://github.com/acassen/keepalived/actions/workflows/build.yml)
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The main goal of this project is to provide simple and robust facilities
for loadbalancing and high-availability to Linux system and Linux based
infrastructures. Loadbalancing framework relies on well-known and widely
used Linux Virtual Server (IPVS) kernel module providing Layer4 loadbalancing.
Keepalived implements a set of checkers to dynamically and adaptively maintain
and manage loadbalanced server pool according their health. On the other hand
high-availability is achieved by the Virtual Router Redundancy Protocol (VRRP).
VRRP is a fundamental brick for router failover. In addition, Keepalived
implements a set of hooks to the VRRP finite state machine providing low-level
and high-speed protocol interactions. In order to offer fastest network
failure detection, Keepalived implements the Bidirectional Forwarding Detection
(BFD) protocol. VRRP state transition can take into account BFD hints to drive
fast state transition. Keepalived frameworks can be used independently or all
together to provide resilient infrastructures.

Keepalived implementation is based on an I/O multiplexer to handle a
strong multi-threading framework. All the events process use this I/O
multiplexer.

To build keepalived from the git source tree, you will need to have
autoconf, automake and various libraries installed. See the INSTALL
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 *
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## 3.1.141 keepalived, v. 1.3.5-19 (Alexandre Cassen)

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used Linux Virtual Server (IPVS) kernel module providing Layer4 loadbalancing.
Keepalived implements a set of checkers to dynamically and adaptively maintain
and manage loadbalanced server pool according their health. On the other hand
high-availability is achieved by the Virtual Router Redundancy Protocol (VRRP).
VRRP is a fundamental brick for router failover. In addition, Keepalived
implements a set of hooks to the VRRP finite state machine providing low-level
and high-speed protocol interactions. In order to offer fastest network
failure detection, Keepalived implements the Bidirectional Forwarding Detection
(BFD) protocol. VRRP state transition can take into account BFD hints to drive
fast state transition. Keepalived frameworks can be used independently or all
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Keepalived implementation is based on an I/O multiplexer to handle a
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GLX driver include/GL/glx.h Brian Paul Mesa

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---------------------------- Subcomponents ----------------------
org.apache.sshd » sshd-core
org.apache.sshd » sshd-common
org.apache.sshd » sshd-mina
org.apache.sshd » sshd-sftp

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


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================================================
========= 4th party Dependencies ==========

FOURTH-PARTY DEPENDENCY #1 NAME: mina-core

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## 3.1.160 Mina SSHD-common, v. 2.15.0 (The Apache Software Foundation)

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Dependency #2

NAME: JCL-OVER-SLF4J

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just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.


THE BASIC LIBRARY FUNCTIONS
---------------------------

Written by:       Philip Hazel
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History and License
History of the software
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 (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
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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?

0.9.0 thru 1.2

n/a

1991-1995

CWI

yes

1.3 thru 1.5.2

1.2

1995-1999
```


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```
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

no

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
```


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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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Mersenne Twister
The _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)
or init_by_array(init_key, key_length).

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Sockets
The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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- Use binascii module to do the actual line-by-line conversion
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Original location:
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Solution inspired by code from:
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   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
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Jean-loup Gailly        Mark Adler
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cfuhash
The implementation of the hash table used by the tracemalloc is based on the cfuhash
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History and License
History of the software
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch
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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
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Digital Creations (now Zope Corporation; see https://www.zope.org/). In 2001, the Python
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Release

Derived from

Year

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0.9.0 thru 1.2

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CWI

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1.2

1995-1999

CNRI

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1.6

1.5.2

2000

CNRI

no

2.0

1.6

2000

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no

1.6.1

1.6

2001

CNRI

no

2.1

2.0+1.6.1

2001

PSF

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2.0.1

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2001

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2.1.1

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2001

PSF

yes

2.1.2

2.1.1

2002

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yes

2.1.3

2.1.2

2002

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yes

2.2 and above

2.1.1

2001-now

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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)
or init_by_array(init_key, key_length).

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Sockets
The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
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Original location:
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2.0    1.6    2000    BeOpen.com    no
1.6.1    1.6    2001    CNRI    no
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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Mersenne Twister

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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)
or init_by_array(init_key, key_length).

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The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
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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, 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.
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All Python releases are Open Source (see http://www.opensource.org for
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    Release         Derived     Year        Owner       GPL-
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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 |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |

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Mersenne Twister
The _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)
or init_by_array(init_key, key_length).

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Sockets
The socket module uses the functions, getaddrinfo(), and getnameinfo(), which are coded
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Modified by Jack Jansen, CWI, July 1995:
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Original location:
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- Third-Party Product Licenses for Exadata Storage Server Hardware
- Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software
- Third-Party Product Licenses for Oracle Flash Accelerator Cards

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