Oracle® Exadata

Licensing Information User's Guide



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Preface

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- 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 System Overview*
- *Oracle Exadata Installation and Configuration Guide*
- *Oracle Exadata Maintenance Guide*
- *Oracle Exadata 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.
- Oracle Exadata System Software is bundled with Oracle SQLcl (SQL Developer Command Line), a command-line interface for Oracle AI Database. SQLcl is licensed solely under the Oracle Free Use Terms and Conditions (FUTC).

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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 (My Oracle Support Doc ID KB571945)

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.
- Configure Enterprise Manager Trusted Partitioning for PCA and Exadata (My Oracle Support Doc ID KB447970)

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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
- Third-Party Product Licenses for SQLcl

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 - Oracle
- The Apache Software License, Version 1.1
- Bsafe (Bsafe Crypto-C.)
- Berkeley Yacc (byacc)
- Byte Code Engineering Library (BCEL)
- Cryptix
- Document Object Model (DOM)
- esmi-ib-library - AMD
- Expat
- FastCGI Developer's Kit - Open Market, Inc. (Oracle Built)
- InfoZip
- Intel Integrated Performance Primitives Redistributables
- IPMItool
- isa-l
- jackson-annotations - FasterXML, LLC
- jackson-core - FasterXML, LLC
- jackson-databind - FasterXML, LLC
- jackson-dataformat-xml - FasterXML, LLC

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- jackson-jaxrs-base - FasterXML, LLC
- jackson-jaxrs-json-provider - FasterXML, LLC
- Jakarta Activation API (JAF) - Eclipse Foundation
- Jakarta Bean Validation API - Eclipse Foundation
- Jakarta Mail - Eclipse Foundation
- Jakarta XML Binding RI (JAXB) - Eclipse Foundation
- JavaScript Extension Toolkit (JET) - Oracle
- Jetty - Eclipse Foundation
- JSch - JCraft
- JLex: A Lexical Analyzer Generator for Java
- JLine - Marc Prud'hommeaux
- jQuery - JS Foundation and other contributors
- jQuery Timepicker - Jon Thornton
- jQuery UI - jQuery Foundation and other contributors
- keepalived - Alexandre Cassen
- libuuid - Theodore Ts'o
- Mesa 3-D graphics library
- Micro Edition Suite (MES)
- MiGLayout - MiG InfoCom AB
- Mina SSHD - The Apache Software Foundation
- Mina SSHD-cli - The Apache Software Foundation
- Mina SSHD-common - The Apache Software Foundation
- Mina SSHD-core - The Apache Software Foundation
- Mina SSHD-putty - The Apache Software Foundation
- Mina SSHD-scp - The Apache Software Foundation
- Mina SSHD-sftp - The Apache Software Foundation
- Nginx - Nginx
- OpenSSL - OpenSSL Project
- Oracle Linux
- Ponder - Tegesoft
- Python - Python Software Foundation
- rapidxml - Boost Software
- Rapid JSON - Milo Yip
- rdma-core - Kernel.org
- Regexp, Regular Expression Package
- SAX
- Selenium
- slf4j-api - QOS.ch

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- slf4j-nop - QOS.ch
- SNMP4J - SNMP4J.org
- snmp4j-agent
- UnZip - Info-ZIP
- W3C XML Schema Test Collection

3.1.1 angus-mail - Oracle

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3.1.12 Intel Integrated Performance Primitives Redistributables

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  version 1.2.11, January 15th, 2017

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  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

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```
/* 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
 * 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
 * Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
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 */
```

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

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3.1.25 JavaScript Extension Toolkit (JET) - Oracle

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# Oracle JET 20.0.0

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expression-eval
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JS Signals <http://millermedeiros.github.com/js-signals/>
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org.slf4j: slf4j-api
org.slf4j: slf4j-jdk14

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external/sizzle

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3.1.31 jQuery Timepicker - Jon Thornton

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3.1.33 keepalived - 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
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```
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
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 *              a loadbalanced server pool using multi-layer checks.
 *
 * Part:        DNS checker
 *
 * Author:      Masanobu Yasui, <yasui-m@klab.com>
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```


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

============================================================
== NAME OF Subcomponent 1 : sshd-core
.
== License Type : Apache 2.0

------------------------------------------------------------------------------
== NAME OF Subcomponent 2 : sshd-common
.
== License Type : Apache 2.0

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== NAME OF Subcomponent 3 : sshd-mina
.
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--------------------------------------------------------------------------------
== NAME OF Subcomponent 4 : sshd-sftp
.
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================================================
========= 4th party Dependencies ==========

FOURTH-PARTY DEPENDENCY #1 NAME: mina-core

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NAME: SLF4J-API


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Dependency #3

NAME: JCL-OVER-SLF4J
==========

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org.apache.sshd:sshd-common

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Release

Derived from

Year

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0.9.0 thru 1.2

n/a

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

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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

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yes

2.1.3

2.1.2

2002

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2.1.1

2001-now

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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)
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Original location:
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   Samuel Neves (supercop/crypto_auth/siphash24/little)
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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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libmpdec
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3.1.51 Rapid JSON - Milo Yip

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3.1.59 snmp4j-agent

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3.2 Third-Party Product Licenses for Oracle Database

Oracle Exadata Database Machine includes the third-party products that are used in Oracle Database software. To view the licenses for these third-party products, refer to *Oracle AI Database Licensing Information User Manual*.

3.3 Third-Party Product Licenses for Oracle Exadata Database Machine and Storage Expansion Rack Hardware

This section contains the licenses for the third-party products included with Oracle Exadata Database Machine and Storage Expansion Rack hardware.

- Third-Party Product Licenses for Exadata Database Server Hardware
- 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

3.3.1 Third-Party Product Licenses for Exadata Database Server Hardware

To view the X9-2 database server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X9-2*.

To view the X8-8 database server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X8-8*.

To view the X8-2 database server third-party product licenses, refer to *Licensing Information User Manual for Oracle Server X8-2*.

To view the X7-8 database server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X7-8*.

To view the X7-2 database server third-party product licenses, refer to *Licensing Information User Manual for Oracle Server X7-2*.

To view the X6-2 database server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X6-2*.

To view the X5-8 database server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X5-8*.

To view the X5-2 database server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X5-2*.

To view the X4-8 database server third-party product licenses, refer to *Licensing Information User Manual Sun Server X4-8*.

To view the X4-2 database server third-party product licenses, refer to *Sun Server X4-2 Program Documentation Third Party Licenses and Notices*.

To view the Sun Server X3-2 (X4170 M3) third-party product licenses, refer to *Sun Server X3-2 Program Documentation Third Party Licenses and Notices*.

To view the Sun Server X2-8 (X4800 M2) third-party product licenses, refer to *Sun Server X2-8 Program Documentation Third Party Licenses and Notices*.

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To view the X4800 database server third-party product licenses, refer to *Sun Fire X4800 Server Program Documentation Third Party Licenses and Notices*.

To view the X4170 M2 database server third-party product licenses, refer to *Sun Fire X4170 M2/X4270 M2 Server Program Documentation Third Party Licenses and Notices*.

3.3.2 Third-Party Product Licenses for Exadata Storage Server Hardware

To view the X9-2L storage server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X9-2L*.

To view the X8-2L storage server third-party product licenses, refer to *Licensing Information User Manual for Oracle Server X8-2L*.

To view the X7-2L storage server third-party product licenses, refer to *Licensing Information User Manual for Oracle Server X7-2L*.

To view the X6-2L storage server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X6-2L*.

To view the X5-2L storage server third-party product licenses, refer to *Licensing Information User Manual Oracle Server X5-2L*.

To view the X4-2L storage third-party product licenses, refer to *Sun Server X4-2L Program Documentation Third Party Licenses and Notices*.

To view the Sun Server X3-2L (X4270 M3) third-party product licenses, refer to *Sun Server X3-2L Program Documentation Third Party Licenses and Notices*.

To view the X4270 M2 server third-party product licenses, refer to *Sun Fire X4170 M2/X4270 M2 Server Program Documentation Third Party Licenses and Notices*.

3.3.3 Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software

To view the Sun Datacenter InfiniBand Switch 36 software third-party licenses, refer to *Licensing Information User Manual Sun Datacenter InfiniBand Switch 36 Firmware Version 2.2*.

3.3.4 Third-Party Product Licenses for Oracle Flash Accelerator Cards

Refer to the appropriate documentation for the hardware you are using.

- Sun Flash Accelerator F40 PCIe Card: View the third-party product licenses in *Sun Flash Accelerator F40 PCIe Card Program Documentation Third Party Licenses and Notices*.
- Sun Flash Accelerator F80 PCIe Card: View the third-party product licenses in *Sun Flash Accelerator F80 PCIe Card Program Documentation Third Party Licenses and Notices*.

3.4 Third-Party Product Licenses for Java

For the licenses for the third-party products included with JDK and JRE refer to *Licensing Information User Manual - Oracle Java SE and Oracle Java Embedded Products*.

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3.5 Third-Party Product Licenses for SQLcl

Oracle Exadata System Software is bundled with Oracle SQLcl (SQL Developer Command Line), a command-line interface for Oracle AI Database. SQLcl is licensed solely under the Oracle Free Use Terms and Conditions (FUTC). Additionally, for licensing information about third-party products included with SQLcl, see Third-Party License Information in *Oracle SQLcl User's Guide*.

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