Oracle8*i*

Release Notes

Release 3 (8.1.7) 64 Bit for SGI IRIX

May 2001

Part No. A90269-01

These release notes contain important information not included in the documentation on the Oracle8*i* for SGI IRIX CD-ROM.

This document contains the following topics:

- Hardware Requirements
- Documentation
- Java Runtime Environment (JRE)
- Post-Wait Driver
- Default JDBC Driver Behavior
- Use of Single-Task Linking for Large Exports/Imports and SQL*Loader Jobs
- Installation Issues
- System Management Products
- Heterogeneous Services Agent Control Utility

Hardware Requirements

The following hardware is required to install Oracle8*i* release 3 (8.1.7) on SGI IRIX systems.

System Requirements

Hardware	Requirements
Memory	A minimum of 256 MB is required to install Oracle8*i* products. Oracle*8i* Client products require 64 MB.
Swap Space	For most systems, twice the amount of RAM or at least 400 MB, whichever is greater.
CD-ROM Device	A CD-ROM drive supported by SGI IRIX is required. Oracle uses ISO 9660 format CD-ROM disks with RockRidge extensions.

Temporary Disk Space Required by the Oracle Universal Installer

The Oracle Universal Installer requires at least 100 MB of space in the /tmp directory. If you do not have enough space in the /tmp directory, set the TMPDIR environment variable to specify a directory with sufficient space.

Documentation

This section contains these topics:

- Additional README Files
- Platform-Specific Documentation
- Online Support

Additional README Files

Additional product README files are located in the product subdirectories in the $ORACLE_HOME directory or in the /ORACLE_HOME/relnotes directory.

Platform-Specific Documentation

The *Oracle8i Administrator's Reference Release 3 (8.1.7) 64 Bit for SGI IRIX*, and the *Oracle8i Installation Guide Release 3 (8.1.7) 64 Bit for SGI IRIX* are available online on the Oracle8*i* software CD-ROM. To access the documentation, use a Web browser to open the index.htm file at the top level of the Oracle8*i* CD-ROM. This file contains links to product and SGI IRIX-specific documentation.

Online Support

The following Web-sites have the most current information about products included with this release:

- `http://www.oracle.com/support`

- `http://technet.oracle.com`

Java Runtime Environment (JRE)

The JRE shipped with Oracle8*i* is used by Oracle Java applications such as Oracle Universal Installer and is the JRE one supported to run with these applications. Only modify this JRE with a patch provided by Oracle Support Services.

The Installer creates the `oraInventory` directory the first time it is run. The inventory can contain multiple versions of the JRE, each of which can be used by one or more products or releases. The `oraInventory` directory keeps an inventory of products installed on your system as well as other installation information. The location of the `oraInventory` directory is defined in the `/var/opt/oracle/oraInst.loc` file.

Products in an Oracle home directory access the JRE through a symbolic link in the `$ORACLE_HOME/JRE` directory to the actual location of a JRE within the inventory. Only modify the symbolic link using a patch provided by Oracle Support Services.

Post-Wait Driver

Oracle8*i* release 3 (8.1.7) 64 Bit for SGI IRIX does not support the post-wait driver.

Default JDBC Driver Behavior

In Oracle8*i* release 3 (8.1.7), the default behavior for the `ResultSet::getXXXStream()` APIs have been modified to comply with the JDBC specification. They return null values for database null LONG or LONG RAW values. In earlier versions of the JDBC drivers, the default behavior was to return the empty stream for database null values. To restore the previous JDBC default behavior when using the release 8.1.7 drivers, you must use the Java property `jdbc.backward_compatible_to_8.1.6`. For example, to cause the release 8.1.7 JDBC drivers to return empty streams from calls to `ResultSet::getXXXStream()`, set the following command at the virtual machine:

```
java -Djdbc.backward_compatible_to_8.1.6 myJavaProgram
```

The jdbc.backward_compatible_to_8.1.6 Java property applies to the release 8.1.7 JDBC Thin driver and the OCI driver.

Use of Single-Task Linking for Large Exports/Imports and SQL*Loader Jobs

It is efficient to use the single-task architecture to transfer large amounts of data between the user and Oracle8*i*. To make the single-task import (impst), export (expst), and SQL*Loader (sqlldrst) executables, use the ins_rdbms.mk make file in the $ORACLE_HOME/rdbms/lib directory. Enter the following:

```
$ cd $ORACLE_HOME/rdbms/lib
$ make -f ins_rdbms.mk singletask
```

> **Note:** Linking Oracle executables as single-task allows a user process to directly access the entire SGA. In addition, running single-task requires more memory because the oracle executable text is no longer shared between the front-end and background processes.

Installation Issues

This section contains these topics:

- Using Hummingbird Exceed
- New Oracle Home Directory
- Backing Up the root.sh Script
- Non-Interactive Installation
- Required Support Files Compatibility
- Known Upgrade Issues
- Installing from Multiple CD-ROMs
- Installing in X-windows Environments
- Oracle Universal Installer Known Problems, Restrictions, and Workarounds
- De-installing Oracle JServer

Using Hummingbird Exceed

If you are using the Hummingbird Exceed X-windows server while installing and using Oracle8*i*, set the window manager to Native so that Microsoft Windows functions as the window manager. See the Exceed documentation for instructions on configuring the window manager.

While Oracle supports the use of Exceed for installing and configuring products, be aware that there is a bug in the way Exceed handles screen coordinates. The Installer window and related Installer dialog boxes or configuration assistants might not display correctly when run through the Exceed server. These display problems might include:

- Truncation of the main window when you click the [Next] button, making the screen unreadable.

- Expansion of an Installer window, causing the dialog buttons to be displayed off the screen. If this happens, you cannot use a mouse to select the buttons.

To fix either problem, you must exit the entire X Windows session and start a new session. You cannot fix the problem by opening a new shell and re-running the Installer from the shell.

To correct problems with hidden dialog box fields, do the following:

a. Select Program>Exceed>xconfig> from the Windows Start menu. The Xconfig window appears.

b. Select the Font applet.

The Font Settings dialog box appears.

c. Click [Font Database...].

The Font Database dialog box appears.

d. De-select the Automatic Font Substitution option.

e. Click [Add…].

The Add Font Directory dialog box appears.

f. Select the Server option.

g. Enter the host name for your system in the Host Name field. Leave the default settings for all other entries.

h. Click [OK] or [Close] on all dialog boxes to save the settings.

i. Close the Xconfig window.

New Oracle Home Directory

Oracle Corporation recommends that you install Oracle8*i* release 3 (8.1.7) into a new Oracle home directory. Do not install Oracle8*i* release 3 (8.1.7) into an Oracle home directory that already contains Oracle products.

If you must install Oracle8*i* release 3 (8.1.7) into an Oracle home directory that contains release 8.1.5 or release 8.1.6 products, use the Installer to remove the release 8.1.5 or release 8.1.6 products before beginning the new installation.

Backing Up the root.sh Script

If you install another product category, such as Oracle8*i* Management Infrastructure, after the successful installation of Oracle8*i* Server into the same Oracle home directory, Oracle Universal Installer will delete the content of the `root.sh` script during the course of the installation. Before beginning the installation, enter the following command to backup the `root.sh` script:

```
$ cp root.sh root.sh.save.
```

> **Note:** If you require the original `root.sh` script, you can recover it from the `root.sh.save` file.

Non-Interactive Installation

Oracle no longer provides a character mode installer. However, you can configure the Oracle Universal Installer to perform a non-interactive installation of Oracle products. You can run the Installer in non-interactive mode directly from your system's X-windows console or through an X-terminal or PC X-Windows server on a remote system.

For more information on the non-interactive installation of Oracle products, see the *Oracle8i Installation Guide Release 3 (8.1.7) 64 Bit for SGI IRIX*.

Required Support Files Compatibility

Oracle8*i* release 3 (8.1.7) client-side libraries are compatible with 8.1.6 client-side libraries if the libraries are used with Oracle applications and tools. The libraries are not compatible when used by a database or listener. This means that applications and tools running in the same Oracle home directory as these 8.1.6 client-side libraries will not encounter runtime errors if the libraries are upgraded to 8.1.7 during an installation.

If you upgrade the 8.1.6 client-side libraries in the same Oracle home directory as an Oracle8*i* release 2 (8.1.6) database or listener, and the database or listener is not also upgraded to release 8.1.7, the release 8.1.6 versions of the database or listener do not work. To keep the older versions of the database or listener intact, you must install Oracle8*i* release 3 (8.1.7) in a new Oracle home directory.

Known Upgrade Issues

Review the following known upgrade issues before upgrading Oracle8*i.*

Bug 1344446   If you attempt to upgrade Oracle8*i* release 2 (8.1.6) database to a release 3 (8.1.7) database in the same Oracle home directory, you will receive ignorable installation runtime errors that occur when the release 8.1.6 software is de-installed.

Oracle Universal Installer upgrades software by first de-installing the old software, then installing the new software. The errors that occur during an upgrade in the same Oracle home directory appear as relinking errors during the RDBMS and Net8 Server installation. Because these errors are relinking errors that occur during the de-installation of the release 8.1.6 software and because the affected files are replaced and relinked again when the release 8.1.7 software is installed, you can safely ignore these errors.

While upgrading the software, Oracle Universal Installer displays error dialog boxes with the following messages:

- ```
  Error in invoking target ioracle of make file
  ORACLE_HOME/rdbms/lib/ins_rdbms.mk
  ```

- ```
  Error in invoking target install of makefile
  ORACLE_HOME/network/lib/ins_net_server.mk
  ```

Click [Ignore] on each of these dialog boxes to allow the installation to continue. To avoid these errors, install the release 3 (8.1.7) software into a new Oracle home directory, then perform the database upgrade.

Enabling and Disabling System Triggers   Before performing either a manual or an automated database upgrade using Oracle Data Migration Assistant, you must first set the _SYSTEM_TRIG_ENABLED parameter in the initialization parameter file to FALSE. After upgrading the database, you must either remove the _SYSTEM_TRIG_ENABLED parameter from the initialization parameter file or set it to TRUE before attempting to upgrade any other products, for example Oracle JServer. Refer to the *Oracle8i Migration* guide for more information on upgrade and migration.

Installing from Multiple CD-ROMs

If you are installing Oracle8*i* release 3 (8.1.7) directly from the installation media, you must switch between CD 1 and CD 2 during the installation session to complete a full installation. To avoid having to switch between CDs, copy the contents of each CD to the hard drive and run the Installer from the new location. Copy the contents of each CD in the directory structure as follows:

```
Disk1/Contents_of_CD_#1
Disk2/Contents_of_CD_#2
```

If the contents of each CD are copied into this structure on the hard drive, Oracle Universal Installer automatically finds the contents of each CD and does not prompt for the location of either CD during the course of installation.

If you run the Installer while the current working directory is in the CD-ROM, perform the following steps to mount the next CD-ROM:

1. Go to `root` directory.

2. Unmount and remove the CD-ROM from the CD-ROM drive.

3. Insert and mount the next CD-ROM into the CD-ROM drive.

4. Enter the correct mount point in the installation dialog box.

5. Click OK to continue.

Installing in X-windows Environments

To successfully install products that require you to insert multiple CDs, you must execute the `runInstaller` script from a shell.

In X-windows environments, it is possible to launch the Oracle Universal Installer by selecting the `runInstaller` script in the File Manager window. However, if you do, you cannot eject the CD until you terminate the installation session.

Oracle Universal Installer Known Problems, Restrictions, and Workarounds

Review the following known problems, restrictions, and workarounds before using the Oracle Universal Installer:

- Ignore the following error when upgrading from release 8.0.*x* to release 8.1.7. Note that the error does not occur during an upgrade from release 8.1.*x* to release 8.1.7.

  ```
  ORA-00604: error occurred at recursive SQL level 1
  ```

- On slower computers, you might notice a flicker at the Oracle Universal Installer loading screen. This flicker does not affect the installation.

- You cannot scroll or resize the Help window the second time that you start it from the Oracle Universal Installer's Inventory window. To fix this problem:

  1. Close the Inventory window.

     The Help window is still open.

  2. Resize the Help window, then close it.

     The next time that you start Help from the Inventory window, the Help window appears in the size that you closed it. This bug is caused by Java Development Kit 1.1.8.

- Do not install Oracle8*i* release 8.1.5 after installing release 8.1.6 or release 8.1.7. If you do so, release 8.1.6 or release 8.1.7 is completely de-installed and is not functional because the required Java Runtime Environment (JRE) 1.1.8_10 is removed. This issue applies to all products that are shared between these installations and installed outside of the Oracle home directory.

  This problem does not occur if you install release 8.1.6 or release 8.1.7 after installing release 8.1.5.

De-installing Oracle JServer

You cannot de-install Oracle JServer separately from other products installed with Oracle8*i* release 3 (8.1.7).

De-installing Oracle JServer causes Oracle Universal Installer to remove Oracle8*i* and other products dependent on Oracle JServer from your system.

System Management Products

This section contains these topics:

- Oracle Intelligent Agent
- Reinstalling Oracle8i Server
- Oracle Internet Directory
- Oracle Database Configuration Assistant
- Net8 Configuration Assistant
- Heterogeneous Services Agent Control Utility

Oracle Intelligent Agent

In Oracle8*i* release 3 (8.1.7), you can install the Oracle Intelligent Agent extensions (Oracle Applications Extensions, Oracle HTTP Server Extensions, Oracle EBusiness Management Tool Extensions, and so on) separately.

This means that during installation, you can select the Oracle Intelligent Agent and separately select any of the Oracle Intelligent Agent extensions. Oracle Data Gatherer is installed as part of the basic Oracle Intelligent Agent.

Reinstalling Oracle8*i* Server

If you reinstall Oracle8*i* Server into an Oracle home directory where Oracle8*i* Server release 8.1.7 is already installed, you must also reinstall any product options, such as Oracle Partitioning, that were enabled before you began the reinstallation.

Oracle Internet Directory

Several products included with Oracle8*i* release 3 (8.1.7) are now directory-enabled and can take advantage of an LDAP version 3 directory server such as Oracle Internet Directory. Purchase of Oracle8*i* release 3 (8.1.7) includes a restricted-use version of Oracle Internet Directory release 2.1.1 for SGI IRIX that may only be used in conjunction with the Oracle directory-enabled components and products such as Net8, Oracle Advanced Security, Oracle8*i*, and all future directory-enabled Oracle products.

Oracle Database Configuration Assistant

When you use Oracle Database Configuration Assistant to create a custom database that includes Oracle JServer, it can take over an hour to finish loading Oracle JServer into the database depending on your system's hardware configuration.

Net8 Configuration Assistant

In a Typical, Oracle8*i* release 3 (8.1.7) silent installation, Net8 Configuration Assistant does not configure an IIOP listening end point to provide access to Oracle JServer. After installation, start the Net8 Configuration Assistant from the command line and configure an IIOP end point for the listener called "LISTENER." For more information, see the *Net8 Administrator's Guid*e.

Heterogeneous Services Agent Control Utility

The Heterogeneous Services Agent Control Utility (`agtctl`) incorrectly reports its version as 8.1.0.0.0. The correct version of this utility is 8.1.7.0.0.