

Oracle Database (RDBMS) on Unix AIX,HP-UX,Linux,Mac OS X,Solaris,Tru64 Unix Operating Systems Installation and Configuration Requirements Quick Reference (8.0.5 to 11.2) (Doc ID 169706.1)

Jump to:
For 12c requirements refer to [Note 1587357.1](#)
[AIX](#)
[HP-UX \(PA-RISC and Itanium\)](#)
[Linux x86](#)
[Linux x86-64](#)
[Linux Itanium](#)
[Linux on Power](#)
[Linux on zSeries](#)
[Mac OS X \(PowerPC and x86-64\)](#)
[Oracle Solaris \(SPARC and x86-64\)](#)
[Tru64](#)
[Pre-Installation Scripts](#)
[OPatch](#)
[Related Documents](#)
[OS Specific Commands](#)
[Change History](#)
[Note 43208.1](#) Certified Compilers

Browse The Contents of Linux Brands ISOs

PURPOSE

This bulletin is produced to provide a central source for all the primary installation settings for the various mainstream unix platforms, e.g. IBM AIX, HP-UX, Oracle Solaris, Tru64, and Linux.

Careful comparison of the Installation Guide and the applicable release note for an OS/Oracle version has been done to ensure that this bulletin provides the most complete source of data in hopes that it will save time for each researching analyst.

Keeping the OS kernel current helps stabilize the system. Production systems should never run an out dated OS kernel version. As a best practice, Oracle recommends the OS kernel version be maintained to within 6 months of current. Please contact the OS vendor directly for more information, risk exposure, and patching recommendations.

NOTE: Pre-compilers requirements are no longer addressed in this note, for a single source note that addresses Pre-compiler/Compiler requirements, please refer to:
[Note 43208.1](#) Certified Compilers

SCOPE & APPLICATION

This focus of this bulletin is on assisting the Oracle Unix installation community in resolving installation issues of the RDBMS. This bulletin places in one document all the pertinent information related to installations that has been extracted from three different documents (Installation Guides, Release Notes, and SRNs)

DISCLAIMER

Whenever a contradiction arises between this document and My Oracle Support (MOS)-Certification, My Oracle Support (MOS)-Certification is the Certification authority. Users of this bulletin are obligated to provide real-time corrections/updates in the form of My Oracle Support (MOS) "Feedback" submissions to ensure the accuracy and up-to-date status of this bulletin.

PRE-INSTALLATION SCRIPTS

A decommissioned, non-supported script is still available to verify that the system has been configured correctly according to the 8.0.5 through 9.2 Installation Guides, please refer to the following My Oracle Support (MOS) Note for details:
[Note 189256.1](#) "UNIX: Script to Verify Installation Requirements for Oracle 8.0.5 to 9.2 versions of RDBMS"

The Remote Diagnostic Agent RDA (see [Note 314422.1](#) for more info on RDA) has the capability to run a Pre-Installation check on several 10.1 and 10.2 Unix/Linux Platforms. Please refer to [Note 250262.1](#) for specifics on how to run these Pre-Install scripts on your server.

OPatch FAQ

To apply one-off patches and Critical Patch Updates (CPUs) or Patch Set Update (PSU) on 9.2 and higer RDBMS versions you have to use the patching utility, OPatch. Oracle Support requests you always use the latest version before applying any patches to your server, to get the latest version,
For 9.2 and 10.1 download [Patch 6880880](#)
For 10.2, 11.1 & 11.2 download [Patch 6880880](#)
Master Note For OPatch [Note 293369.1](#)

Oracle Version	11.2	11.1	10.2	10.1	9.2.0
AIX OS (32- and 64-bit stands for Oracle not OS)	AIX 5L V5.3 TL 09 SP1 ("5300-09-01") or higher, 64 bit kernel (Part Number E10854-01) AIX 6.1 TL 02 SP1 ("6100-02-01") or higher, 64-bit kernel AIX 7.1 TL 00 SP1 ("7100-00-01") or higher, 64-bit kernel AIX 7.2 TL 0 SP 1 ("7200-00-01") or higher, 64-bit kernel (11.2.0.4 only)	AIX 6.1L, AIX 5L version 5.3, TL 05, Service Pack 06 (Part Number B32076-03), AIX 6L version 6.1, TL 00, Service Pack 04 or later (Part Number B32076-03)	5.2 ML4 or higher, 5.3 ML2 or higher, 6.1 For AIX 6.1, only 10.2.0.3 or higher are certified Customers running on 10.2.0.4 or higher and using CRS require AIX 5.3 TL5 (5300-05) or higher -- see Note:739371.1	5.2 ML1 or higher, 5.3	o 4.3.3 (64bit only) o 5.1, 5.2, 5.3 (5L)(64bit only)
AIX Disk Space	6.40G Database 1.55G Software	6.45G Database 1.6G Software	1.2G Database 3G Software 1G Companion 150M-1.9G Client	1.2G Database 3G Software 1G Companion 150M-1.9G Client	4.5G
AIX RAM	Database: minimum 1GB, recommended 2GB Grid Infrastructure for standalone server: minimum 1.5GB (plus another 1GB if installing Database too), recommended 4GB	1GB	1GB	512Mb 256Mb(Client/Compan)	512Mb
AIX swap	Between 1GB and 2GB then 1.5 times RAM Between 2GB and 16 GB then match RAM More than 16 GB then 16GB RAM	If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM	If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM
AIX tmp	1GB	240Mb	400Mb	400Mb	400Mb
AIX JDK & JRE	IBM JDK 1.6.0.00 (64 BIT)	IBM JDK 1.5.0.06 (IA64 - mixed mode) is installed	IBM JDK 1.4.2 (32bit) is installed	IBM JDK 1.4.1.2 (32bit) is installed	JDK 1.3.1-build 20020316 & 1.1.8-Build 20020313
AIX Patches/ Packages versions in parens mean if OS is later than the listed version, the APAR is built into the later OS version and need not be applied. IMPORTANT: Review Note 390656.1 & apply AIX & Oracle Patch	AIX 5.3 required packages: bos.adt.base bos.adt.lib bos.adt.libm bos.perf.libperfstat 5.3.9.0 or later bos.perf.perfstat bos.perf.proctools rsct.basic.rte (For RAC configurations only) rsct.compat.clients.rte (For RAC configurations only) x1C.aix50.rte:10.1.0.0 or later x1C.rte.10.1.0.0 or later gpfs.base 3.2.1.8 or later (Only for RAC systems that will use GPFS cluster filesystems) AIX 6.1 required packages: bos.adt.base bos.adt.lib bos.adt.libm bos.perf.libperfstat 6.1.2.1 or later bos.perf.perfstat bos.perf.proctools	6.1 / 5.3 ML5 required packages: bos.adt.base bos.adt.lib bos.adt.libm bos.perf.libperfstat bos.perf.perfstat bos.perf.proctools x1C.aix50.rte:8.0.0.7 or later (AIX 5.3) x1C.rte:8.0.0.7 or later (AIX 5.3) x1C.aix61.rte:9.0.0.1 or later (AIX 6.1) x1C.rte:9.0.0.1 or later (AIX 6.1) rsct.basic.rte (For RAC configurations only) rsct.compat.clients.rte (For RAC configurations only) 5.3 ML5 required patches: IY89080 IY92037 IY94343 IZ01060 or efix for IZ01060 IZ03260 or efix for IZ03260 (IZ03260 for ML6, IZ03475 for ML7) to address ORA-27061 IY84780 IY68989	5.2 ML4 required patches: IY63133 IY64978 IY63366 IY64691 IY64737 IY65001 IY94343 Note 422031.1 LV Block Corruption 5.3 ML2 required patches: IY58143 IY59386 IY60930 IY66513 IY70159 IY68989 IY94343 Note 422031.1 LV Block Corruption Patch 5496862 is required (See Note 390656.1) if running on AIX 5.3 ML5 IY84780 IY68989	5.2 required patches: IY43980 IY44810 IY45462 IY45707 IY46214 IY46605 IY48525 IY51801 IY59082 Refer to Note 285158.1 IY94343 Note 422031.1 LV Block Corruption 5.3 required patches: Refer to Note 282036.1 IY58143 IY59386 IY60930 IY94343 Note 422031.1 LV Block Corruption Patch 5496862 is required (See Note 390656.1) if running on AIX 5.3 ML5. IY84780 IY68989	Async IO Hang, refer to Note 233659.1 for applicable patch for 4.3.3, 5.1, or 5.2 4.3.3 required patches/packages: IY30927(4.3.3.0.10) IY24568(4.3.3.0.09) IY25282(4.3.3.0.09) IY27614(4.3.3.0.09) IY30151(4.3.3.0.10) Maint Level 9 or higher (4.3.3.0.09) bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat 5.1(5L) required patches/packages: IY26778(5100-01) IY28766(5100-01) IY28949(5100-01) IY29965(5100-02) IY30150(5100-02) IY59082 refer to Note 285158.1 Maint Level 1 and IY22854

	<p>rsct.basic.rte (For RAC configurations only) rsct.compat.clients.rte (For RAC configurations only) xIC.aix61.rte:10.1.0.0 or later xIC.rte.10.1.0.0 or later gpfs.base 3.2.1.8 or later (Only for RAC systems that will use GPFS cluster filesystems)</p> <p>AIX 7.1 required packages: bos.adt.base bos.adt.lib bos.adt.libm bos.perf.libperfstat bos.perf.perfstat bos.perf.proctools xIC.rte.11.1.0.2 or later gpfs.base 3.3.0.11 or later (Only for RAC systems that will use GPFS cluster filesystems)</p> <p>Authorized Problem Analysis Reports (APARs) for AIX 5.3: IZ42940 IZ49516 IZ52331 See Note:1379908.1 for other AIX 5.3 patches that may be required</p> <p>APARs for AIX 6.1: IZ41855 IZ51456 IZ52319 IZ97457 IZ89165 See Note:1264074.1 and Note:1379908.1 for other AIX 6.1 patches that may be required</p> <p>APARs for AIX 7.1: IZ87216 IZ87564 IZ89165 IZ97035 See Note:1264074.1 and Note:1379908.1 for other AIX 7.1 patches that may be required</p> <p>Refer to the 11.2 AIX Install Guide. Part Number E24332-01</p> <p>Important: Please see Note 282036.1 for the latest patching requirements</p>	<p>POWER7 Based Hardware Patch 9216848 (Note 1065579.1)</p>	<p>Important: Please see Note 282036.1 for the latest patching requirements for 5.3 and 5.2</p> <p>Required OS packages: bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat bos.perf.libperfstat bos.perf.proctools</p> <p>6.1 specifics: Please download and run an updated version of rootpre.script before proceeding with the Oracle Database install. Internal bug 6613550. 6718715 can be downloaded from My Oracle Support (MOS). Refer to Note 282036.1 for updates on any required patches for AIX 6.1</p> <p>Excessive Paging on IBM AIX POWER Systems Refer Note 1503072.1</p>	<p>Important: Please see Note 282036.1 for the latest patching requirements for 5.3 and 5.2</p> <p>Required OS packages: bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat bos.perf.libperfstat bos.perf.proctools X11.motif.lib (Spatial only)</p>	<p>bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat bos.perf.libperfstat Use the -ignoreSysPrereqs option with runInstaller to ignore the system pre-requisite test (Note 293750.1)</p>
AIX Kernel Settings	<p>set AIXTHREAD_SCOPE=S in the environment: export AIXTHREAD_SCOPE=S</p> <p>NOTE: This is only necessary on AIX5L. A change was introduced in AIX 6.1 which means that the variable does not need to be set. See section 5.5 (page 217) of the IBM AIX Version 6.1 Differences Guide</p> <p>From Section 2.6 of the 11.2 Install Guide for AIX:</p> <p>2.5 Verifying UDP and TCP Kernel Parameters</p> <p>Use NDD to ensure that the kernel TCP/IP ephemeral port range is broad enough to provide enough ephemeral ports for the anticipated server workload. Ensure that the lower range is set to at least 9000 or higher, to avoid Well Known ports, and to avoid ports in the Registered Ports range commonly used by Oracle and other server ports. Set the port range high enough to avoid reserved ports for any applications you may intend to use. If the lower value of the range you have is greater than 9000, and the range is large enough for your anticipated workload, then you can ignore OUI warnings regarding the ephemeral port range.</p> <p>Use the following command to check your current range for ephemeral ports:</p> <pre># /usr/sbin/no -a fgrep ephemeral tcp_ephemeral_low = 32768 tcp_ephemeral_high = 65535 udp_ephemeral_low = 32768 udp_ephemeral_high = 65535</pre> <p>In the preceding example, the TCP and UDP ephemeral ports are set to the default range (32768-65536).</p> <p>If you expect your workload to require a high number of ephemeral ports, such as high node counts or heavy use of Parallel Query, then update the UDP and TCP ephemeral port range to a broader range. For example:</p> <pre># /usr/sbin/no -p -o tcp_ephemeral_low=9000 -o tcp_ephemeral_high=65500 # /usr/sbin/no -p -o udp_ephemeral_low=9000 -o udp_ephemeral_high=65500</pre> <p>From Section 2.10 of the 11.2 Install Guide for AIX:</p> <p>2.8.2 Configure System Configuration Parameters</p> <p>Parameter Recommended Value maxuproc 16384 ncargs 128</p> <p>Also see Note:1307804.1</p>	<p>set AIXTHREAD_SCOPE=S in the environment: export AIXTHREAD_SCOPE=S</p> <p>NOTE: This is only necessary on AIX5L. A change was introduced in AIX 6.1 which means that the variable does not need to be set. See section 5.5 (page 217) of the IBM AIX Version 6.1 Differences Guide</p>	<p>set AIXTHREAD_SCOPE=S in the environment: export AIXTHREAD_SCOPE=S</p> <p>NOTE: This is only necessary on AIX5L. A change was introduced in AIX 6.1 which means that the variable does not need to be set. See section 5.5 (page 217) of the IBM AIX Version 6.1 Differences Guide</p> <p>NOTE: It is not mandatory to set this variable if you are installing 10.2 client.</p>	<p>set AIXTHREAD_SCOPE=S in the environment: export AIXTHREAD_SCOPE=S</p>	<p>set AIXTHREAD_SCOPE=S in the environment: export AIXTHREAD_SCOPE=S</p>
Oracle Version	11.2	11.1	10.2	10.1	9.2.0

			<div>Document 169706.1</div> <div>o PHKL_32646 s/b PHKL_36103 o PHKL_32632 s/b PHKL_33656 s/b PHKL_33807 s/b PHKL_38364 o PHKL_32645 s/b PHKL_34477 s/b PHKL_37106 o PHKL_33552 s/b PHKL_33563 s/b PHKL_36667 s/b PHKL_37653 s/b PHKL_41002 o PHSS_31850 s/b PHSS_34040 s/b PHSS_37201 s/b PHSS_37492 s/b PHSS_38134 s/b PHSS_40537 o PHSS_31851 s/b PHSS_34043 s/b PHSS_34859 s/b PHSS_37498 s/b PHSS_38138 or PHSS_39101 s/b PHSS_40541 o PHSS_31854 s/b PHSS_33357 s/b PHSS_34045 s/b PHSS_34445 s/b PHSS_40547 o PHSS_31855 s/b PHSS_33350 s/b PHSS_34041 s/b PHSS_35055 s/b PHSS_36343 s/b PHSS_38140 s/b PHSS_40543 o PHSS_33275 s/b PHSS_33349 s/b PHSS_34040 s/b PHSS_37201 s/b PHSS_37492 s/b PHSS_38134 s/b PHSS_40537 o PHSS_33276 s/b PHSS_34042 s/b PHSS_34853 s/b PHSS_36344 s/b PHSS_40539 o PHKL_37809 or later Note 580273.1 For PL/SQL native compilation and installation of Pro*C/C++, Oracle Call Interface, Oracle C++ Call Interface, or Oracle XML Developer's Kit (XDK) , the following patches are required: o PHSS_33278 o PHSS_33277 The following JDK patches: o PHCO_31553 s/b PHCO_33675 s/b PHCO_36323 s/b PHCO_37940 s/b PHCO_39699 o PHKL_31500 o PHSS_32213 s/b PHSS_32502 s/b PHSS_34201 s/b PHSS_37492 s/b PHSS_40537 Note: Refer to the following Web site for information about additional patches that may be required by JDK 1.4.2: HP Java Patches 11.31 (Itanium) required patches: The following operating system patches: o PHKL_35936 s/b PHKL_36242 s/b PHKL_37185 s/b PHKL_38449 s/b PHKL_38038 o PHKL_38397 or later Note 580273.1 The following patches are supported on Oracle Database 10g release 2:(Part Number B25292-06) PHKL_35900: 11.31 evacd performance, kvaddr leak panic PHKL_36248: 11.31 esctl cumulative patch PHKL_36249: 11.31 esdisk cumulative patch PHKL_35936: 11.31 call to read(2) or write(2) may incorrectly return -1 Use the -ignoreSysPrereqs option with runInstaller to ignore the system pre-requisite test</div>		<div>PHKL_35936 s/b PHKL_36242 s/b PHKL_37185 s/b PHKL_38038</div> <div>Use the -ignoreSysPrereqs option with runInstaller to ignore the system pre-requisite test</div>
HP Kernel Settings	Refer to the 11GR2 HP-UX Install Guide for steps to do this. Section 2.10 Configuring Kernel Parameters on HP-UX Systems.Part Number E24336-02.	Important: For HP 9000/700 workstations Only, see Note 467166.1 : set the following before starting the OUI,DBCA, or DBUA: \$ export JAVA64FLAG="-d64" KSI_ALLOC_MAX (NPROC*8) EXECUTABLE_STACK=0 MAX_THREAD_PROC 1024 MAXDSIZ 1073741824 MAXDSIZ_64BIT 2147483648 MAXFILES 65536 Note:1061351.1 MAXFILES_LIM 65536 Note:1061351.1 MAXTSIZE_64BIT 1073741824 MAXSSIZ 134217728 bytes MAXSSIZ_64BIT 1073741824 MAXUPRC (((NPROC*9)/10)+1 Bug 6995956 MSGMAP (MSGTQL+2) * MSGMNI (NPROC) MSGSEG 32767 * MSGTQL (NPROC) NCSIZE (NINODE+1024) NFILE (15*NPROC+2048) * NFLOCKS (NPROC) NINODE (8*NPROC+2048) NKTHREAD (((NPROC*7)/4)+16) NPROC 4096 SEMMNI (NPROC) SEMMNS (SEMMNI*2) SEMMNU (NPROC - 4) SEMVMX 32767 SHMMAX AvailMem SHMMNI 4096 SHMSEG 512 VPS_CEILING 64 * MSGMAP,MAXSWAPCHUNKS, NCALLOUT, SEMMAP,VX_NCSIZE,NFILE, MSGSEG are obsolete on 11.31 (Itanium and PA-RISC) and no longer required to be set.	KSI_ALLOC_MAX (NPROC*8) EXECUTABLE_STACK=0 MAX_THREAD_PROC 1024 MAXDSIZ 1073741824 bytes MAXDSIZ_64BIT 2147483648 bytes MAXSSIZ 134217728 bytes MAXFILES 65536 Note:1061351.1 MAXFILES_LIM 65536 Note:1061351.1 MAXSSIZ 134217728 bytes MAXSSIZ_64BIT 1073741824 MAXSWAPCHUNKS 16384* MAXUPRC (((NPROC*9)/10)+1 Bug 6995956 MSGMAP (2+MSGMNI) MSGMNI (NPROC) MSGSEG 32767 MSGTQL (NPROC) NCSIZE (NINODE+VX_NCSIZE)* NFILE (15*NPROC+2048) NFLOCKS (NPROC) NINODE (8*NPROC+2048) NKTHREAD (((NPROC*7)/4)+16) NPROC 4096 SEMMAP (SEMMNI+2)* SEMMNI (NPROC) SEMMNS (SEMMNI*2) SEMMNU (NPROC - 4) SEMVMX 32768 SHMMAX AvailMem SHMMNI 512 SHMSEG 120 VPS_CEILING 64 * MAXSWAPCHUNKS, SEMMAP, and VX_NCSIZE are obsolete on 11.23 PA-RISC and IPF and no longer need to be set Set NCSIZE = (NINODE+1024) 11.31 (Itanium and PA-RISC): The following 11.31 kernel parameters are obsolete: maxswapchunks, msgmap, ncallout, semmap,vx_ncsize,Nfile,Msgseg	KSI_ALLOC_MAX (NPROC*8) MAX_THREAD_PROC 256 MAXDSIZ 1073741824 bytes MAXDSIZ_64BIT 2147483648 bytes MAXSSIZ 134217728 bytes MAXSSIZ_64BIT 1073741824 MAXSWAPCHUNKS 16384* MAXUPRC (((NPROC*9)/10)+1 Bug 6995956 MSGMAP (2+MSGMNI) MSGMNI (NPROC) MSGSEG 32767 MSGTQL (NPROC) NCSIZE (NINODE+VX_NCSIZE)* NFILE (15*NPROC+2048) NFLOCKS (NPROC) NINODE (8*NPROC+2048) NKTHREAD (((NPROC*7)/4)+16) NPROC 4096 SEMMAP (SEMMNI+2)* SEMMNI (NPROC) SEMMNS (SEMMNI*2) SEMMNU (NPROC - 4) SEMVMX 32768 SHMMAX AvailMem SHMMNI 512 SHMSEG 120 VPS_CEILING 64 * MAXSWAPCHUNKS, SEMMAP, and VX_NCSIZE are obsolete on 11.23 PA-RISC and IPF and no longer need to be set Set NCSIZE = (NINODE+1024) 11.31 (Itanium and PA-RISC): The following 11.31 kernel parameters are obsolete: maxswapchunks, msgmap, ncallout, semmap,vx_ncsize,Nfile and Msgseg	KSI_ALLOC_MAX (NPROC*8) MAX_THREAD_PROC 256 MAXDSIZ 1073741824 bytes MAXDSIZ_64BIT 2147483648 bytes MAXSSIZ 134217728 bytes MAXSSIZ_64BIT 1073741824 MAXSWAPCHUNKS 16384* MAXUPRC (((NPROC*9)/10) MSGMAP (MSGTQL+2) MSGMNI (NPROC) MSGSEG 32767 MSGTQL (NPROC) NCALLOUT (NKTHREAD+16)* NCSIZE ((8*NPROC+2048)+VX_NCSIZE)* NFILE (15*NPROC+2048) NFLOCKS (NPROC) NINODE (8*NPROC+2048) NKTHREAD (((NPROC*7)/4)+16) NPROC 4096 SEMMAP (SEMMNI+2)* SEMMNI (NPROC) SEMMNS (SEMMNI*2) SEMMNU (NPROC - 4) SEMVMX 32768 SHMMAX AvailMem SHMMNI 512 SHMMNI 512 SHMSEG 32 VPS_CEILING 64 * MAXSWAPCHUNKS, SEMMAP, NCALLOUT, and VX_NCSIZE are obsolete on 11.23 PA-RISC and IPF and no longer need to be set Set NCSIZE = (NINODE+1024) 11.31 (Itanium and PA-RISC): The following 11.31 kernel parameters are obsolete: maxswapchunks, msgmap, ncallout, semmap,vx_ncsize,Nfile and Msgseg
Oracle Version	11.2	11.1	10.2	10.1	9.2.0
Oracle Solaris (32-bit and 64-bit stands for Oracle DB, not OS)	Solaris(64bit) 10 (update 6 or higher), Solaris 11 NOTE: On Solaris 11, only 11.2.0.3 is certified (not 11.2.0.1 or 11.2.0.2) Set the following variable before installing 11.2.0.3 on Solaris 11: export AWT_TOOLKIT=XToolkit	2.9 Update 7 (09/04), 2.10	<ul style="list-style-type: none">2.8 Update 7 (02/02), 2.9 Update 6 (04/04), 2.10 (64bit)Solaris 10 on AMD64/x86_64	Solaris SPARC 2.8, 2.9 (64bit) o Solaris SPARC 10 (64bit) requires 10.1.0.3.0 patchset o Solaris x86 2.9, 10	<ul style="list-style-type: none">o 2.6, 2.7, 2.8, 2.9 (32bit)o Solaris 10 (32bit) requires 9.2.0.4.0 patchseto 2.8, 2.9 (64bit)o Solaris 10 (64bit) requires 9.2.0.6.0 patchset
Solaris Disk	1.5 to 2G Database	1.5 to 2G Database	1.2G Database	1.2G Database	4.5G

	Document 169706.1				
Space	4.7G Software	4.7G Software	1.5G - 3.5G Software 1G Companion 150M-1G Client	1.5G Software 1G Companion 150M-1G Client	
Solaris RAM	Database: minimum 1GB, recommended 2GB Grid Infrastructure for standalone server: minimum 1.5GB (plus another 1GB if installing Database too), recommended 4GB	1GB	1GB	512Mb 256Mb(Client/Compan)	512Mb
Solaris swap	If RAM = 1 GB to 2 GB then 1.5 times RAM elseif RAM = 2 GB and 16 GB then match RAM else RAM > 16 GB then 16 GB Note: On Oracle Solaris, if you use non-swappable memory, such as ISM, then you should deduct the memory allocated to this space from the available RAM before calculating swap space. If you plan to install Oracle Database or Oracle RAC on systems using DISM, then available swap space must be at least equal to the sum of the SGA sizes of all instances running on the servers.	If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM	If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM
Solaris tmp	1GB	275Mb	400Mb	400Mb	400Mb
Solaris JDK & JRE	JDK 6 Update 10 (Java SE Development Kit 1.6 u10) or JDK 5 (1.5.0_16)	JDK 1.5.0_11 is installed	JDK 1.4.2_01 is installed JDK 1.4.2_08 is installed (x86_64)	JDK 1.4.2_01 is installed	JDK 1.3.1_02 & 1.1.8_12 (32bit) 1.1.8_15 (64bit)
Solaris Patches/_ Packages	<p>Required packages Solaris 10: SUNWarc SUNWbtool SUNWhea SUNWlibC SUNWlibm SUNWlibms SUNWmfrun SUNWsprot SUNWtoo SUNWi1of SUNWi1cs (ISO8859-1) SUNWi15cs (ISO8859-15) SUNWxfnt SUNWcsi</p> <p>Although it is not listed in the Install Guide, the RAC root.sh script requires /usr/xpg4/bin/tr and so requires the SUNWxcu4 package. @ See Bug:14046807 for confirmation.</p> <p>For Solaris 11 all packages are installed by default. Hence no additional packages are required (refer Installation Document). But it is suggested to make sure above packages are installed or its equivalent are installed. We can search for packages at Oracle Solaris 11 Package repository). To fix the issue reported in Bug 14046807 install XCU4 Utilities</p> <p>Note : From Solaris 11, the SUNW prefix for package names is no longer used. With the introduction of IPS, all software packages are renamed. for more information refer to Oracle Solaris 10 SVR4 and IPS Package Comparison</p> <p>Information on Solaris 11 Installation types - refer to Note 1557986.1</p>	<p>Important: For non-sun4u or sun4v workstations Only, see Note 467166.1: set the following before starting the OUI,DBCA, or DBUA: \$ export JAVA64FLAG="-d64"</p> <p>Required Packages: SUNWarc SUNWbtool SUNWhea SUNWlibm SUNWlibms SUNWmfrun SUNWsprox (Not applicable to Solaris 10), SUNWtoo SUNWxfnt SUNWi1cs SUNWi1of SUNWlibC SUNWlibm SUNWlibms SUNWmfrun SUNWsprot SUNWsprox (Not applicable to Solaris 10), SUNWtoo SUNWxfnt SUNWuiu8 Note 290034.1 SUNWulcf Note 290034.1</p> <p>Although it is not listed in the Install Guide, the RAC root.sh script requires /usr/xpg4/bin/tr and so requires the SUNWxcu4 package. @ See Bug:14046807 for confirmation.</p> <p>Solaris 9 Reqd Patches: 112233-11 111722-04 112874-39 115675-01 (NUMA only) 113471-08 (NUMA only) 115675-01 (NUMA only) 113029-07 for Fair Share Scheduler, See Note 558374.1</p> <p>Solaris 10 Reqd Patches: 127111-02 s/b 127127-11 137111-04 s/b 137137-09 (Part Number B32314-02)</p> <p>To support Pro*C/C++,Pro*FORTRAN,Oracle Call Interface,Oracle C++ Call Interface,Oracle XML Developers Kit (XDK) 112760-05 (Solaris 9) 117837-05 (Solaris X86 10) 117846-08 (Solaris X86 10) 118682-01 (Solaris X86 10) ulimit(TIME) to unlimited. Refer to Note 250262.1 ulimit(FILE) to unlimited. Refer to Note 250262.1 ulimit(DATA) to a minimum of 1048576. Refer to Note 250262.1 ulimit(STACK) to a minimum of 32768. Refer to Note 250262.1 ulimit(NOFILES) to a minimum of 4096. Refer to Note 250262.1 ulimit(VMEMORY) to a minimum of 4194304. Refer to Note 250262.1</p>	<p>Required Packages: SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWmfrun, SUNWsprot, SUNWsprox (Not applicable to Solaris 10), SUNWtoo, SUNWxfnt, SUNWi1cs, SUNWlibC SUNWlibm, SUNWi1of, SUNWxcu4, SUNWuiu8 and SUNWulcf - See Note 290034.1</p> <p>Solaris 8 Reqd Patches: 108528-23 108652-66 108773-18 108921-16 108940-53 108987-13 108989-02 108993-45 109147-24 110386-03 111023-02 111111-03 111308-03 111310-01 112396-02 111721-04 112003-03 112138-01 112760-05 (Native PL/SQL,ProC,ProFortran,OCI,OCCT,XDK only) SUNWctplx/ SUNWdtbax/ SUNWttkx/ SUNWtoox/ SUNWxwicx/ SUNWxwplx/ and also Patch 108940-76 (or higher) in order to fix the SUNWdtbax package Note 366100.1</p> <p>Solaris 9 Reqd Patches: 112233-11 111722-04 (Bug 4122475) 115675-01 113471-08 115675-01 112760-05 (Native PL/SQL,ProC,ProFortran,OCI,OCCT,XDK only) 112963-25 113029-07 for Fair Scheduler, See Note 558374.1</p> <p>Solaris 10 Reqd Patches 127111-02 s/b 127127-11 for 10.2.0.4 or later (see README for 10.2.0.4.0) 127111-03 s/b 127127-11 See Note 460424.1</p> <p>Solaris 10 x86_64 Reqd Patches: 118345-03 119961-01 127127-11 See Note 460424.1</p> <p>Solaris 10 special instructions: Select 'Do not create a starter database' when installing Oracle 10gR2 due to Bug 4884705 and run the DBCA after the installation.</p> <p>The Fair Share Scheduler(FSS) requires Solaris 10 11/06 or higher. If using a prior update of Solaris 10 install the following patches : Install patch 118833-36 before installing Oracle 10gR2 for Solaris 10 on SPARC. Install patch 118855-36 before installing Oracle 10gR2 for Solaris 10 on x86-64</p> <p>IMPORTANT: Patch 4589082 needs to be installed prior to attempting an installation of 10.2 on Solaris 10 SPARC to avoid "Error in invoking target 'relink' of makefile 'precomp/lib/ins_precomp.mk' related to -ldce not found. See also Note 333348.1.</p> <p>IMPORTANT: See Note 1190843.1 regarding a related relinking issue in 10.2.0.5</p>	<p>Required Packages: SUNWarc, SUNWbtool, SUNWhea, SUNWlibC (CRS only) SUNWlibm, SUNWlibms, SUNWmfrun, SUNWsprot, SUNWsprox (Not applicable to Solaris 10), SUNWtoo, SUNWxfnt, SUNWlibC, SUNWi1cs, SUNWi15cs, SUNWi1of SUNWuiu8,SUNWulcf (if Bug 4025250 occurs) SUNWxcu4</p> <p>Solaris 8 Reqd Patches: 108528-23 108652-66 108773-18 108921-16 108940-53 108987-13 108989-02 108993-18 109147-24 110386-03 111023-02 111111-03 111308-03 111310-01 112396-02 111721-04 112003-03 112138-01</p> <p>Solaris 9 Reqd Patches: 112233-11 111722-04 (Bug 4122475) 112963-25 113029-07 for Fair Scheduler, See Note 558374.1</p> <p>Solaris 10 special instructions: 1. Execute runInstaller with the - ignoreSysPrereqs option. 2. Select 'Do not create a starter database' when installing Oracle 10g. 3. During installation, the warning message 'SUNWsprox package not installed' can be ignored as it is no longer provided separately. Press Continue to resume the installation. 4. Download and install PSR 10.1.0.4 Patch 4163362(or apply PSR 10.1.0.3 Patch 3761843 and interim Patch 4163208 (SPARC) or patch 4186426 (x86) from support.oracle.com. 5. Download and install Patch 4365826 from 10.1.0.3 or 10.1.0.4 from support.oracle.com. (SPARC only), also a merge patch containing 4365826 can be applied to 10.1.0.4.2 Patch 4590858 6. If you have an End User Solaris 10 distribution, install the SUNWuiu8 package prior to installing the 10g client. 7. The Fair Share Scheduler(FSS) requires Solaris 10 11/06 or higher. If using a prior update of Solaris 10 install the following patches : Install patch 118833-36 before installing Oracle 10gR2 for Solaris 10 on SPARC. Install patch 118855-36 before installing Oracle 10gR2 for Solaris 10 on x86-64 8. Oracle Solaris 10 install Sun patch 127111-03 (SPARC) / 127127-11 (x86- 64) See Note 460424.1</p>	<p>32bit/64bit SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWmfrun, SUNWsprot, SUNWtoo SUNWi1of and SUNWxfnt (for Java) SUNWsprox (for 64bit Oracle) (Not applicable to Solaris 10) SUNWuiu8,SUNWulcf (if Bug 4025250 occurs) SUNWxcu4</p> <p>108528-05 (2.8)</p> <p>Solaris 10 special instructions: Execute runInstaller with the - ignoreSysPrereqs option The Fair Share Scheduler(FSS) requires Solaris 10 11/06 or higher. If using a prior update of Solaris 10 install the following patches : Install patch 118833-36 before installing Oracle 10gR2 for Solaris 10 on SPARC. Install patch 118855-36 before installing Oracle 10gR2 for Solaris 10 on x86-64 Oracle Solaris 10 install Sun patch 127111-03 (SPARC) / 127127-11 (x86-64) See Note 460424.1</p>

Solaris Kernel Settings	Refer to the 11g Solaris Install Guide, Part Number E24346-02 for steps to do this. Verifying UDP and TCP Kernel Parameters Note : In Solaris 11 to set TCP / UDP Kernel Parameter use ipadm command, ndd is deprecated in Solaris 11 Refer to the for Comparison between ipadm and other networking commands	SEMMNI 100 SEMMNS 1024(Obsolete) SEMMSL 256 SEMMVMX 32767(Obsolete) SHMMAX 4294967295 SHMMNI 100 (Obsolete) NOEXEC_USER_STACK 1 Note: For Solaris 10 Oracle recommends still setting all these values in the /etc/system file, as well as, the Resource Control Facility. Refer to the 11g Solaris Install Guide for steps to do this. Here are the new names of the kernel parameters for Solaris 10 (Solaris 9 equivalents are in parentheses): <ul style="list-style-type: none">project.max-sem-ids 100 (semmni)process.max-sem-nsems 256 (semmnl)project.max-shm-memory 4294967295 (shmmax)project.max-shm-ids 100 (shmmni)	SEMMNI 100 *** SEMMNS 1024 ** SEMMSL 256 *** SEMMVMX 32767 ** SHMMAX 4294967295 SHMMIN 1 * SHMMNI 100*** SHMSEG 10 * NOEXEC_USER_STACK 1 * obsolete in Solaris 9 and 10 ** obsolete in Solaris 10 *** default value in Solaris 10 is already larger Note: for Solaris 10 SHMMAX which is now set through the Resource Control Facility not /etc/system. Refer to the 10gR2 for Solaris SPARC Installation guide for steps to do this, as well as, the Release Notes which has corrections: 10.2 Install Guides and Release Notes Here are the new names of the kernel parameters for Solaris 10 (Solaris 9 equivalents are in parentheses): <ul style="list-style-type: none">project.max-sem-ids 100 (semmni)process.max-sem-nsems 256 (semmnl)project.max-shm-memory 4294967295 (shmmax)project.max-shm-ids 100 (shmmni)	SEMMNI 100 *** SEMMNS 1024 ** SEMMSL 256 *** SEMMVMX 32767 ** SHMMAX 4294967295 SHMMIN 1 * SHMMNI 100*** SHMSEG 10 * NOEXEC_USER_STACK 1 * obsolete in Solaris 9 and 10 ** obsolete in Solaris 10 *** default value in Solaris 10 is already larger	SEMMNI 100 *** SEMMNS 1024 ** SEMMSL 256 *** SHMMAX 4294967295 SHMMIN 1 * SHMMNI 100*** SHMSEG 10 * NOEXEC_USER_STACK 1 * obsolete in Solaris 9 and 10 ** obsolete in Solaris 10 *** default value in Solaris 10 is already larger
Oracle Version	11.2	11.1	10.2	10.1	9.2.0
Tru64 OS do "/usr/sbin/sizer -v" to see specific version of Tru64, "uname -a" will not show it.	NA	Not Available	5.1b	5.1b	5.1a, 5.1b
Tru64 Disk Space	NA	Not Available	1.2G Database 3G Software 1G Companion 150M-1.9G Client	1.2G Database 3G Software 1G Companion 150M-1.9G Client	4.5G
Tru64 RAM	NA	Not Available	1Gb 256Mb (Client/Compan)	512Mb 256Mb(Client/Compan)	512Mb
Tru64 swap	NA	Not Available	2Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM
Tru64 tmp	NA	Not Available	400Mb	400Mb	400Mb
Tru64 JDK & JRE	NA	Not Available	SDK 1.4.2 needs to be installed download here	SDK 1.4.2 needs to be installed download here	JDK 1.3.1.03 & 1.1.8-10
Tru64 Patches/ Packages	NA	Not Available	OSFCMPLRS OSFLIBA OSFPGMR OSFSER OSFX11 5.1B-3 (patchkit 5): T64V51BB26AS0005-20050502	OSFSER OSFLIBA OSFPGMR OSFCMPLRS OSFX11 OSFXDEVX (Spatial only) OSFXINCLUDE (Spatial only) OSFXLIBA (Spatial only) 5.1B-3 (patchkit 5): T64V51BB26AS0005-20050502	OSFSER OSFLIBA OSFPGMR OSFCMPLRS OSFX11 o 5.1a with patchkit 6 or higher required: T64V51AB24AS0006-20031031 o HP Tru64 UNIX Performance improvement to times(3) system call: T64KIT0023583-V51AB24-E-20040913 o HP Tru64 UNIX V5.1A PK6 (BL24) ERP Kit - file region locks can be inadvertently released as a result of AIO processing: T64KIT0023109-V51AB24-E-20040729 o 5.1B-3 (patchkit 5): T64V51BB26AS0005-20050502
Tru64 Kernel Settings	NA	Not Available	PER_PROC_STACK_SIZE 8388608 33554432 to avoid ORA-4030s (Install Guide recommends 8388608) MAX_PER_PROC_STACK_SIZE 33554432 PER_PROC_DATA_SIZE 335544320 or RAM (whichever is greater) MAX_PER_PROC_DATA_SIZE 335544320 or RAM (whichever is greater) PER_PROC_ADDRESS_SPACE 1073741824 or RAM (whichever is greater) MAX_PER_PROC_ADDRESS_SPACE 1073741824 or RAM (whichever is greater) SHM_MAX 4278190080 (4 GB less 16MB) SHM_MIN 1 SHM_MNI 256 SHM_SEG 256 NEW_WIRE_METHOD 1 (if >= 5.1b PK3 and patch T64KIT0021686-V51BB24-E-20040223) Note 272697.1 for 5.1b PK5 and higher is defaulter to 1 and can no longer be changed NEW_WIRE_METHOD 0 (if <= 5.1b PK2) Note 272697.1	PER_PROC_STACK_SIZE 8388608 33554432 to avoid ORA-4030s (Install Guide recommends 8388608) MAX_PER_PROC_STACK_SIZE 33554432 PER_PROC_DATA_SIZE 335544320 MAX_PER_PROC_DATA_SIZE 335544320 PER_PROC_ADDRESS_SPACE 1073741824 or RAM (whichever is greater) MAX_PER_PROC_ADDRESS_SPACE 1073741824 or RAM (whichever is greater) SHM_MAX 4278190080 (4 GB less 16MB) SHM_MIN 1 SHM_MNI 256 SHM_SEG 256 NEW_WIRE_METHOD 1 (if >= 5.1b PK3 and patch T64KIT0021686-V51BB24-E-20040223) Note 272697.1 for 5.1b PK5 and higher is defaulter to 1 and can no longer be changed NEW_WIRE_METHOD 0 (if <= 5.1b PK2) Note 272697.1	MAX_PER_PROC_STACK_SIZE 33554432 PER_PROC_STACK_SIZE 8388608 to avoid ORA-4030s (Install Guide recommends 8388608) PER_PROC_DATA_SIZE 201326592 SHM_MAX 4278190080 (4 GB less 16MB) SHM_MIN 1 SHM_MNI 256 SHM_SEG 128 NEW_WIRE_METHOD 1 (if >= 5.1b PK3 and patch T64KIT0021686-V51BB24-E-20040223 or 5.1a PK6) Note 272697.1 for 5.1b PK5 and higher is defaulter to 1 and can no longer be changed NEW_WIRE_METHOD 0 (if <= 5.1b PK2) Note 272697.1 VM_BIGPG_ENABLED 0 FIFO_DO_ADAPTIVE 0 Alpha processor EV5.6 or later

			<div>VM_BIGPG_ENABLED 0 FIFO_DO_ADAPTIVE 0 SSM_THRESHOLD * MSG_SIZE 32768 MAX_OBJS 5120 MAX_ASYNC_REQ 256 MAX_SESSIONS 500 RDG_MAX_AUTO_MSG_WIRES 0 RDG_AUTO_MSG_WIRES 0 AIO_TASK_MAX_NUM 8193 EXEC_DISABLE_ARG_LIMIT 1</div> <div>* Set this attribute to 0 only if the rad_gh_regions[n] or gh_chunks attributes are set in the vm subsystem. Otherwise, do not change the value.</div>	<div>VM_BIGPG_ENABLED 0 FIFO_DO_ADAPTIVE 0 SSM_THRESHOLD * MSG_SIZE 32768 MAX_OBJS 5120 MAX_ASYNC_REQ 256 MAX_SESSIONS 500 RDG_MAX_AUTO_MSG_WIRES 0 RDG_AUTO_MSG_WIRES 0 AIO_TASK_MAX_NUM 8193</div> <div>* Set this attribute to 0 only if the rad_gh_regions[n] or gh_chunks attributes are set in the vm subsystem. Otherwise, do not change the value.</div>	
Oracle Version	11.2	11.1	10.2	10.1	9.2.0
Linux x86 OS (See Note 225710.1 for supported kernels) and Note 265262.1 for "Things to know about Linux"	<div>o RHEL4,OEL4 - Update 7 or greater which is Kernel 2.6.9-78 or newer</div> <div>o RHEL5, OEL5 - 5.2 or greater which is Kernel 2.6.18-92 or newer</div> <div>o Red Hat Enterprise Linux 6 - Kernel 2.6.32-71 or later</div> <div>o Red Hat Enterprise Linux 7 - Kernel 3.10.0-54.0.1.el7.x86_64 or later</div> <div>o Oracle Linux 7 with Red Hat Compatible Kernel - Kernel 3.10.0-54.0.1.el7.x86_64 or later</div> <div>o Oracle Linux 7 - Kernel 3.8.13-33.el7uek.x86_64 or later</div> <div>o SLES10 - Kernel 2.6.16.21 or higher</div> <div>o SLES 11 - Kernel 2.6.27.19-5 or greater</div> <div>o Asianux Server 3 SP2</div> <div>o NOTE: On RHEL6/OEL6, 11.2.0.3 or later is certified (not 11.2.0.1 or 11.2.0.2)</div>	<div>o RHEL4, OEL4, Asianux 2.0 2.6.9</div> <div>o RHEL5, OEL5, Asianux Server 3 2.6.18</div> <div>o SuSE SLES10 2.6.16.21</div> <div>o SuSE SLES11 - Kernel 2.6.27.19-5 or greater</div>	<div>o RHEL 3 AS/ES (RHEL3) (Update 4 or later)</div> <div>2.4.21-27.EL or higher</div> <div>o RHEL 4 AS/ES (RHEL4) and Oracle Enterprise Linux 4 (OEL4)</div> <div>2.6.9-5.0.5.EL or higher</div> <div>o RHEL 5 AS/ES (RHEL5) and Oracle Enterprise Linux 5 (OEL5)</div> <div>2.6.18-8 or higher</div> <div>o SuSE SLES9 2.6.5-7.201 or higher</div> <div>o SuSE SLES10</div> <div>o SuSE SLES11 - Kernel 2.6.27.19-5 or greater</div> <div>o Asianux 1.0 2.4.21-27.EL or higher</div> <div>o Asianux 2.0 2.6.9-5.0.5.EL or higher</div>	<div>o RHEL AS/ES 2.1 (Update 3 or higher) 2.4.9-e34 or higher</div> <div>o RHEL AS/ES 3.0 (Update 2 or higher) 2.4.21-15.EL or higher</div> <div>o RHEL4 (10.1.0.3.0 patchset required) refer to 10.1.0.3.0 Release Notes</div> <div>o SuSE SLES8 (Service Pack 3 or higher) 2.4.21-138</div> <div>o SuSE SLES9 2.6.5-7.5</div> <div>o Red Flag Advanced Server 4.0 (China only)</div> <div>o Miracle Linux Std Ed 2.1 (Japan only)</div> <div>o Asianux 1.0</div>	<div>o Red Hat Enterprise AS/ES 2.1 2.4.9-e34 or higher</div> <div>o Red Hat Enterprise AS/ES 3.0 2.4.21-15</div> <div>o RHEL4 (9.2.0.6.0 patchset required or 9.2.0.5.0 patchset and Patch 4276910 required) refer to 9.2.0.4 Release Notes</div> <div>o SuSE SLES8 2.4.21-138</div> <div>o SuSE SLES9 2.6.5-7.97</div> <div>o United Linux 1.0 (SP3 or higher)</div> <div>o Red Flag DC Server 4.0 (China and Hong Kong only)</div> <div>o Monta Vista Carrier Grade Linux 3.0 (embedded)</div> <div>o Miracle Linux Std Ed 2.1 (Japan only) 2.4.7</div> <div>o Asianux 1.0</div>
Linux x86 Disk Space	3.8G Database	2G Database 3.5G Install	1.2G Database 1.5 to 3.5G Install	1.2G Database 1.5G Software 1G Companion 150M-650M Client	4.5G
Linux x86 RAM	1GB	1GB	1GB	512Mb 256Mb(Client/Compan)	512Mb
Linux x86 swap	<div>If RAM=1 GB to 2 GB then 1.5 times RAM</div> <div>If RAM=2 GB to 16 GB then equal to RAM</div> <div>If greater than 16 GB then 16 GB</div>	<div>If RAM between 1 GB and 2 GB then 1.5 times RAM</div> <div>elseif RAM between 2 GB and 16 GB then match RAM</div> <div>else RAM > 16 GB then 16 GB</div>	<div>If RAM = 1024MB to 2048Mb then 1.5 times RAM</div> <div>elseif RAM > 2048MB and < 8192MB then match RAM</div> <div>else RAM > 8192MB then .75 times RAM</div>	<div>1Gb or match RAM</div> <div>512Mb(Client/Compan)</div>	<div>1Gb or match RAM</div>
Linux x86 tmp	1024Mb	400Mb	400Mb	400Mb	400Mb
Linux x86 JDK & JRE	JDK (version TBS) is installed	JDK (version TBS) is installed	JDK 1.4.2_08 is installed	JDK 1.4.2_02 is installed	Sun JDK 1.3.1_02 & Blackdown 1.1.8_v3
Linux x86 Patches/ Packages	<div>RHEL4, OEL4: Refer to Note 880211.1</div> <div><ul style="list-style-type: none">binutils-2.15.92.0.2-25compat-libstdc++-33-3.2.3-47.3elfutils-libelf-0.97.1-5glibc-2.3.4-2.41glibc-common-2.3.4-2.41libaio-0.3.105-2libgcc-3.4.6-10libstdc++-3.4.6-10make-3.80-7.EL4pdksh-5.2.14-30.6unixODBC-2.2.11-1.RHEL4.1The remaining Install Guide requirements will have to be installed:elfutils-libelf-devel-0.97.1-5.i386.rpmglibc-headers-2.3.4-2.41.i386.rpmglibc-kernheaders-2.4-9.1.103.EL.i386.rpm will be required as a prerequisiteglibc-devel-2.3.4-2.41.i386.rpmgcc-3.4.6-10.i386.rpmlibstdc++-devel-3.4.6-10.i386.rpmgcc-c++-3.4.6-10.i386.rpmlibaio-devel-0.3.105-2.i386.rpmsysstat-5.0.5-19.el4.i386.rpmunixODBC-devel-2.2.11-1.RHEL4.1.i386.rpm</div> <div>NOTE: If you download unixODBC from ftp://ftp.unixodbc.org/pub/unixODBC/ then the header and library files are distributed together in one gzipped tar file.</div> <div>RHEL5, OEL5: Refer to Note 880936.1</div> <div>RHEL6, OEL6: Refer to Oracle documentation</div> <div>SLES10: Refer to Note 763386.1</div> <div>SLES11: Refer to Note 881025.1</div>	<div>Asianux 2.0,OEL4,RHEL4: refer to Note 430653.1</div> <div><ul style="list-style-type: none">default Update 3 RPMs install or higher, see Note 376183.1binutils-2.15.92.0.2-18 *compat-libstdc++-33.2.3-47.3 *elfutils-libelf-0.97-5 *elfutils-libelf-devel-0.97-5glibc-2.3.4-2.19 *glibc-common-2.3.4-2.19 *glibc-devel-2.3.4-2.19glibc-headers-2.3.4-2.19 (glibc-devel required RPM)glibc-kernheaders-2.4-9.1.98 (glibc-devel required RPM)gcc-3.4.5-2gcc-c++-3.4.5-2libaio-0.3.105-2 *libaio-devel-0.3.105-2libgcc-3.4.5 *libstdc++-3.4.5-2 *libstdc++-devel-3.4.5-2make-3.80-5 *sysstat-5.0.5 *unixODBC-2.2.11-1.RHEL4unixODBC-devel-2.2.11-1.RHEL4* default OS installed</div> <div>NOTE: If you download unixODBC from ftp://ftp.unixodbc.org/pub/unixODBC/ then the header and library files are distributed together in one gzipped tar file.</div> <div>Asianux Server 3,OEL5,RHEL5: refer to Note 438765.1</div> <div><ul style="list-style-type: none">default RPM install, see Note 376183.1binutils-2.17.50.0.6-2.el5 *compat-libstdc++-33-3.2.3-61elfutils-libelf-0.125-3.el5 *elfutils-libelf-devel-0.125-3.el5elfutils-libelf-devel-static-0.125-3.el5 (required by elfutils-libelf-devel)glibc-2.5-12 *glibc-common-2.5-12 *glibc-devel-2.5-12glibc-headers-2.5-12 (required by glibc-devel)gcc-4.1.1-52.el5gcc-c++-4.1.1-52.el5libaio-0.3.106libaio-devel-0.3.106libgcc-4.1.1-52libgomp-4.1.1-52.el5 (required by gcc)libstdc++-4.1.1-52.el5 *libstdc++-devel-4.1.1-52.el5make-3.81-1.1 *sysstat-7.0.0-3.el5unixODBC-2.2.11-7.1unixODBC-devel-2.2.11-7.1* default OS installed</div> <div>NOTE: If you download unixODBC from ftp://ftp.unixodbc.org/pub/unixODBC/ then the header and library files are distributed together in one gzipped tar file.</div> <div>SLES10: refer to Note 452818.1</div> <div><ul style="list-style-type: none">default RPM install, see Note 386391.1binutils-2.16.91.0.5-23.4 *compat-libstdc++-5.0.7-22.2 *glibc-2.4-31.2 *</div>	<div>RHEL3: default RPMS (see Note 376183.1)</div> <div><ul style="list-style-type: none">gcc-3.2.3-34glibc-2.3.2-95.20make-3.79.1openmotif21-2.1.30-8compat-db-4.0.14.5compat-gcc-7.3-2.96.128compat-gcc-c++-7.3-2.96.128compat-libstdc++-7.3-2.96.128compat-libstdc++-devel-7.3-2.96.128setarch-1.3-1XFree86 (Spatial only)XFree86-devel (Spatial only)</div> <div>RHEL4: refer to Note 343431.1 default RPMS (see Note 376183.1)</div> <div><ul style="list-style-type: none">binutils-2.15.92.0.2-10.EL4compat-db-4.1.25-9compat-libstdc++-296-2.96-132.7.2compat-libstdc++-33-3.2.3-47.3control-center-2.8.0-12gcc-3.4.3-9.EL4gcc-c++-3.4.3-9.EL4glibc-2.3.4-2glibc-common-2.3.4-2gnome-libs-1.4.1.2.90-44.1libstdc++-3.4.3-9.EL4libstdc++-devel-3.4.3-9.EL4make-3.80-5pdksh-5.2.14-30sysstat-5.0.5-1xscreensaver-4.18-5.rhel4.2openmotif21-2.1.30-11.RHEL4.2 (required to install Oracle demos)libaio-0.3.102-1</div> <div>[Red Hat,Oracle] Enterprise Linux 5.0 Refer to Note 419646.1</div> <div><ul style="list-style-type: none">default RHEL5 RPMs (see Note 376183.1)default OEL5 RPMs (see Note 401167.1)gcc-c++-4.1.1-52.el5.i386.rpm and all its dependent packages. The dependent packages are: gcc-4.1.1-52.el5.i386.rpm libstdc++-devel-4.1.1-52.el5.i386.rpm glibc-devel-2.5-12.i386.rpm glibc-headers-2.5-12.i386.rpm libgomp-4.1.1-52.el5.i386.rpm libXp-1.0.0-8.i386.rpm compat-gcc-34-3.4.6-4.i386rpm compat-gcc-c++-34-3.4.6-4.i386rpm compat-libstdc++-33-3.2.3-61.i386.rpmsysstat-5.0.5-1.i386.rpm (OEL5 only)</div> <div>SuSE SLES9: Refer to Note 400429.1</div> <div><ul style="list-style-type: none">default-RPMS (see NOTE 386391.1)glibc-devel-2.3.3-98.47.i586.rpmgcc-3.3.3-43.34.i586.rpm.libstdc++-devel-3.3.3-43.34.i586.rpmgcc-c++-3.3.3-43.34.i586.rpmdb1-1.85-85.1.i586.rpmorbit-0.5.17-330.1.i586.rpm</div>	<div>RHEL ES/AS 2.1:</div> <div><ul style="list-style-type: none">make-3.79gcc-2.96-128gcc-c++-2.96-128openmotif-2.1.30-11glibc-2.2.4-32libstdc++-2.96-128XFree86 (Spatial only)XFree86-devel (Spatial only)</div> <div>RHEL ES/AS 3: Refer to Note 394360.1</div> <div><ul style="list-style-type: none">default-RPMS (see NOTE 376183.1)gcc-3.2.3-34gcc-c++-3.2.3-34libstdc++-devel-3.2.3.3-34libaio-0.3.96-3.i386.rpm (required to configure Async IO)libaio-devel-0.3.96-3.i386.rpm (required to configure Async IO)XFree86 (Spatial only)XFree86-devel (Spatial only)</div> <div>set LD_ASSUME_KERNEL=2.4.19</div> <div>RHEL4: Refer to Note 392940.1 Patch 4153257 required for installer to work</div> <div><ul style="list-style-type: none">default RPMS (see Note 376183.1)binutils-2.15.92.0.2-10.EL4compat-db-4.1.25-9compat-libstdc++-296-2.96-132.7.2compat-libstdc++-33-3.2.3-47.3control-center-2.8.0-12gcc-3.4.3-9.EL4gcc-c++-3.4.3-9.EL4glibc-2.3.4-2glibc-common-2.3.4-2gnome-libs-1.4.1.2.90-44.1libstdc++-3.4.3-9.EL4libstdc++-devel-3.4.3-9.EL4make-3.80-5pdksh-5.2.14-30sysstat-5.0.5-1xscreensaver-4.18-5.rhel4.2openmotif21-2.1.30-11.RHEL4.2 (required to install Oracle demos)libaio-0.3.96</div> <div>SuSE SLES8: Requires 10.1.0.3 Full Release (CD Release)</div> <div><ul style="list-style-type: none">make-3.79.1gcc-3.2.2-38gcc-c++-3.2.2-38glibc-2.2.2-124openmotif-2.2.2-124xf86 (Spatial only)xdevel (Spatial only)</div> <div>SuSE SLES9: Requires 10.1.0.3 Full Release (CD Release)</div> <div><ul style="list-style-type: none">make-3.80gcc-3.3.3-43gcc-c++-3.3.3-43</div>	<div>RHEL ES/AS 2.1:</div> <div><ul style="list-style-type: none">glibc 2.2.4-32make-3.79openmotif-2.1.30gcc-2.96-128gcc-c++-2.96-128libstdc++-2.96-128</div> <div>RHEL ES/AS 3: Refer to Note 252217.1 default RPMS (see Note 376183.1)</div> <div><ul style="list-style-type: none">glibc 2.3.2-95.20gcc-3.2.3-34make-3.79.1compat-db-4.0.14.5compat-gcc-7.3-2.96.128compat-gcc-c++-7.3-2.96.128compat-libstdc++-devel-7.3-2.96.128gnome-libs-1.4.1.2.90-34.1openmotif21-2.1.30-8setarch-1.3-1</div> <div>To be able to install patch 3006854 these RPMs need to be installed</div> <div><ul style="list-style-type: none">glibc-devel-2.3.2-95.6.i386.rpmglibc-headers-2.3.2-95.20glibc-kernheaders-2.4-8.34</div> <div>Additional steps: Note 252217.1 for additional setup requirements for RHEL3 and 9.2 x86 for Async I/O functionality to work you need to install Patch 3016968 on top of 9.2.0.3.0 or 9.2.0.4.0 or Patch 3208258 on top of 9.2.0.5.0 or 9.2.0.6.0</div> <div>RHEL4: Refer to Note 303859.1 default RPMS (see Note 376183.1)</div> <div><ul style="list-style-type: none">compat-db-4.1.25-9compat-gcc-32-3.2.3-47.3compat-gcc-32-c++-3.2.3-47.3compat-oracle-rhel4-1.0-3 (obtain Patch 4198954)compat-libcwait-2.0-1 (obtain Patch 4198954)compat-libgcc-296-2.96-132.7.2compat-libstdc++-296-2.96-132.7.2compat-libstdc++-33-3.2.3-47.3gcc-3.4.3-9.EL4gcc-c++-3.4.3-9.EL4gnome-libs-1.4.1.2.90-44gnome-libs-devel-1.4.1.2.90-44libaio-devel-0.3.102-1libaio-0.3.102-1make-3.80-5openmotif21-2.1.30-11xorg-x11-deprecated-libs-devel-6.8.1-23.ELxorg-x11-deprecated-libs-6.8.1-23.EL</div> <div>Patch 4188455 required for installer to work Set LD_ASSUME_KERNEL=2.4.19 Post install you need to apply Patch 4190568 on top of the 9.2.0.6 patchset Note 303859.1 for more specific steps for 9.2.0.6 on RHEL4</div> <div>SuSE SLES8:</div>

		<div><ul style="list-style-type: none">• glibc-devel-2.4-31.2• gcc-4.1.0-28.4• gd-2.0.32-2.2 (required by sysstat)• gnuplot-4.0.0-20.2 (requried by sysstat)• ksh-93r-12.9 *• libaio-0.3.104-14.2 *• libaio-devel-0.3.104-14.2• libelf-0.8.5-47.2• libgcc-4.1.0-28.4 *• libstdc++-4.1.0-28.4 *• libstdc++-devel-4.1.0-28.4• make-3.80-202.2 *• plotutils-2.4.1-591.2 (required by sysstat)• sysstat-6.0.2-16.4• unixODBC-2.2.11-21.4• unixODBC-devel-2.2.11-21.4<p>* default OS installed</p><p>NOTE: If you download unixODBC from ftp://ftp.unixodbc.org/pub/unixODBC/ then the header and library files are distributed together in one gzipped tar file.</p><p>SLES11: refer to Note 849583.1</p></div>	<div><p>SLES10: refer to Note 387137.1</p><ul style="list-style-type: none">• default RPM install, see Note 386391.1• glibc-devel-2.4-31.2.i586.rpm• gcc-4.1.0-28.4.i586.rpm• libstdc++-devel-4.1.0-28.4.i586.rpm• gcc-c++-4.1.0-28.4.i586.rpm• libaio-devel-0.3.104-14.2.i586.rpm<p>SLES11: refer to Note 842649.1</p></div>	<div><ul style="list-style-type: none">• glibc-2.3.3-98• libaio-0.3.98-18• libaio-devel-0.3.98-18• openmotif-libs-2.2.2-519.1• xfree86 (Spatial only)• xfree86-devel (Spatial only)</div>	<div><ul style="list-style-type: none">• gcc-3.2.2-38• glibc-2.2.2-124• make-3.79.1• openmotif-2.2.2-124<p>SuSE SLES9: Refer to Note 427976.1 default RPMS (see Note 386391.1)</p><ul style="list-style-type: none">• glibc-2.3.3• gcc-3.3.3• gcc-c++-3.3.3• libaio-0.3.98• libaio-devel-0.3.98• make-3.80• openmotif-libs-2.2.2-519.1• orarun-1.8-109<p>Additional steps for SLES9 for 9.2 32bit x86: Install 9.2.0.4 (Complete release) and then apply 9.2.0.5 and 9.2.0.5 one-off Patch 3809563 or 9.2.0.6 patchset</p><p>If using Bourne, Bash, or Korn shell: (/usr/lib/libInternalSymbols.so can be obtained from the orarun package) ORACLE_BASE= ; export ORACLE_BASE LD_ASSUME_KERNEL=2.4.21; export LD_ASSUME_KERNEL LD_PRELOAD=/usr/lib/libInternalSymbols.so ; export LD_PRELOAD for Async I/O functionality to work you need to install Patch 3208258 on top of 9.2.0.5.0 or 9.2.0.6.0</p></div>
<div>Linux x86 Kernel Settings</div>	<div>kernel.shmmni = 4096 kernel.sem = 250 32000 100 128 fs.file-max = 6815744 512* processes (for example 6815744 for 13312 processes) net.ipv4.ip_local_port_range = 9000 65500 net.core.rmem_default = 262144 net.core.rmem_max = 4194304 net.core.wmem_default = 262144 net.core.wmem_max = 1048576</div>	<div>SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SHMMAX RAM times 0.5 Note 567506.1) SHMMNI 4096 SHMALL = SHMMAX/pagesize FILE-MAX =6815744 512*Processes IP_LOCAL_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 4194304 WMEM_DEFAULT 262144 WMEM_MAX 2621441048576 NET.IPV4.TCP_RMEM 4194304 4194304 4194304 NET.IPV4.TCP_WMEM 262144 262144 262144</div>	<div>SuSE SLES9: SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SHMMAX RAM times 0.5 (Note 567506.1) SHMMNI 4096 SHMALL = SHMMAX/pagesize FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 2097152 WMEM_DEFAULT 262144 WMEM_MAX 262144 NET.IPV4.TCP_RMEM 1048576 1048576 1048576 NET.IPV4.TCP_WMEM 262144 262144 262144</div> <div>Other Linux OS: SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SHMMAX RAM times 0.5 (Note 567506.1) SHMMNI 4096 SHMALL = SHMMAX/pagesize FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 2097152 WMEM_DEFAULT 262144 WMEM_MAX 262144 NET.IPV4.TCP_RMEM 1048576 1048576 1048576 NET.IPV4.TCP_WMEM 262144 262144 262144</div>	<div>SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SEMVMX 32767 SHMMAX 2147483648 One-half the size of your system's physical memory. Check your system for additional restrictions. SHMMNI 4096 SHMALL = SHMMAX/pagesize FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500</div>	<div>SEMMNI 100 SEMMNS 256 SEMMSL 100 SEMOPM 100 SEMVMX 32767 SHMMAX 2147483648 One-half the size of your system's physical memory. Check your system for additional restrictions. SHMMIN 1 SHMMNI 4096 SHMSEG 4096</div>
<div>Oracle Version</div>	<div>11.2</div>	<div>11.1</div>	<div>10.2</div>	<div>10.1</div>	<div>9.2.0</div>
<div>Linux x86_64 EM64T AMD64 OS (See Note 225710.1 for supported kernels) and Note 265262.1 for "Things to know about Linux"</div>	<div>o RHEL4,OEL4 - update 7 or greater o RHEL5,OEL5 - 5.2 or greater o RHEL6,OEL6 - 6.0 or greater o SLES10 - Kernel 2.6.16.21-0.8 or greater o SLES11 - Kernel 2.6.27.19-5 or greater o Asianux Server 3 SP2</div> <div>NOTE: On RHEL6/OEL6, 11.2.0.3 or later is certified (not 11.2.0.1 or 11.2.0.2)</div> <div>Refer Note 1304727.1 for certification information</div> <div>Refer 11.2 DB Installation Guide for Linux for Kernel requirement</div>	<div><ul style="list-style-type: none">• Asianux 2.0, [Red Hat,Oracle] Enterprise Linux 4.0: 2.6.9• Asianux Server 3, [Red Hat,Oracle] Enterprise Linux 5.0: 2.6.18• SUSE Linux Enterprise Server 10: 2.6.16.21• SuSE Linux Enterprise Server 11: 2.6.27.19-5 or greater</div>	<div>o Red Hat Enterprise Linux (RHEL 3) AS/ES (Update 4 or later) 2.4.21-27.EL o RHEL4 AS/ES (Update 1 or later) or OEL4 2.6.9-11.EL o RHEL5 AS/ES or OEL5 2.6.18-8 or higher o SUSE Linux Enterprise Server 9.0 (SLES9) with SP2 or later 2.6.5-7.201 o SuSE Linux Enterprise Server 10 (SLES10) 2.6.16.21-0.8 (or later) o SuSE Linux Enterprise Server 11 (SLES11) 2.6.27.19-5 or greater o Asianux 2.0</div>	<div>o Red Hat Enterprise AS/ES 3.0 (Update 2 or higher) 2.4.21-15.EL o Red Hat Enterprise AS/ES 4.0 (Update 1 or higher) 2.6.9-11.EL smp o SuSE SLES8 (Service Pack 3 or higher) 2.4.21-185-smp o SuSE SLES9 2.6.5-7.97 o Asianux 1.0 requires 10.1.0.3</div>	<div>o Red Hat Enterprise AS/ES 3.0 2.4.21-9 o Red Hat Enterprise AS/ES 4.0 minimum patchset level is 9.2.0.7.0 o SuSE SLES8 2.4.21-185 o SuSE SLES9 9.2.0.6 Required - needed for EM64T patch 4261532 & patch 4233179</div>
<div>Linux x86_64 EM64T AMD64 Disk Space</div>	<div>3.8Gb Database</div>	<div>1.68G Database 3.8G to 4.4G Software</div>	<div>1.2G Database 1.5 to 3.5G Install</div>	<div>1.2G Database 1.5G Software 1G Companion 150M-650M Client</div>	<div>4.5G</div>
<div>Linux x86_64 EM64T AMD64 RAM</div>	<div>Database: minimum 1GB, recommended 2GB</div> <div>Grid Infrastructure for standalone server: minimum 1.5GB (plus another 1GB if installing Database too), recommended 4GB</div>	<div>1GB</div>	<div>1GB</div>	<div>512Mb 256Mb(Client/Compan)</div>	<div>512Mb</div>
<div>Linux x86_64 EM64T AMD64 swap</div>	<div>11.2 DB Installation Guide for Linux says: If RAM between 1 GB and 2 GB then 1.5 times the size fo RAM. If RAM between 2 GB to 16 GB then equal to the size of RAM. If RAM greater than 16 GB then 16 GB.</div> <div>11.2 Grid Infrastructure (GI) Installation Guide for Linux says: If RAM between 2 GB and 8 GB then 2 times the size fo RAM. If RAM between 8 GB to 32 GB then 1.5 times the size of RAM. If RAM greater than 32 GB then 32 GB.</div>	<div>If RAM 1 GB and 2 GB then 1.5 times the size fo RAM. If RAM 2 GB to 16 GB then equal to the size fo RAM. If RAM greater than 16 GB then 16 GB</div> <div>Automatic Memory Management Starting with Oracle Database 11g, the Automatic Memory Management feature requires more shared memory (/dev/shm) and file descriptors. The shared memory should be sized to be at least the greater of MEMORY_MAX_TARGET and MEMORY_TARGET for each Oracle instance on the computer. To determine the amount of shared memory available, enter the following command: # df -k /dev/shm/</div> <div>Note: MEMORY_MAX_TARGET and MEMORY_TARGET cannot be used when LOCK_SGA is enabled or with huge pages on Linux</div>	<div>If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM</div>	<div>1Gb or match RAM 512Mb(Client/Compan)</div>	<div>1Gb or match RAM</div>

Linux x86_64 EM64T AMD64 tmp	1024Mb	400Mb	400Mb	400Mb	400Mb
Linux x86_64 EM64T AMD64 JDK & JRE	You can use Sun JDK 1.5.0-06 with the JNDI extension JDK versions with the Oracle Java Database Connectivity and Oracle Call Interface drivers. However, these are not mandatory for the installation	You can use Sun JDK 1.5.0-06 with the JNDI extension JDK versions with the Oracle Java Database Connectivity and Oracle Call Interface drivers. However, these are not mandatory for the installation	JDK 1.4.2_08 is installed	JDK 1.4.2_02 is installed	o Sun JDK 1.4.2_03 is installed
Linux x86_64 EM64T AMD64 Patches/ Packages	<p>RHEL7,OEL7: Refer to Note 1962100.1</p> <p>RHEL6,OEL6: Refer to Note 1441282.1</p> <p>RHEL5,OEL5: Refer to Note 880989.1</p> <p>binutils-2.17.50.0.6-6.el5 (x86_64) compat-libstdc++-33-3.2.3-61 (x86_64) << both ARCH's are required. See next line. compat-libstdc++-33-3.2.3-61 (i386) << both ARCH's are required. See previous line. elfutils-libelf-0.125-3.el5 (x86_64) glibc-2.5-24 (x86_64) << both ARCH's are required. See next line. glibc-2.5-24 (i686) << both ARCH's are required. See previous line. glibc-common-2.5-24 (x86_64) ksh-20060214-1.7 (x86_64) libaio-0.3.106-3.2 (x86_64) << both ARCH's are required. See next line. libaio-0.3.106-3.2 (i386) << both ARCH's are required. See previous line. libgcc-4.1.2-42.el5 (i386) << both ARCH's are required. See next line. libgcc-4.1.2-42.el5 (x86_64) << both ARCH's are required. See previous line. libstdc++-4.1.2-42.el5 (x86_64) << both ARCH's are required. See next line. libstdc++-4.1.2-42.el5 (i386) << both ARCH's are required. See previous line. make-3.81-3.el5 (x86_64) The remaining Install Guide requirements will have to be installed: elfutils-libelf-devel-0.125-3 (x86_64) a.) requires elfutils-libelf-devel-static-0.125-3 (x86_64) as a prerequisite, as listed below. b.) elfutils-libelf-devel and elfutils-libelf-devel-static each depend upon the other. Therefore, they must be installed together, in one (1) "rpm -ivh" command as follows: rpm -ivh elfutils-libelf-devel-0.125-3.el5.x86_64.rpm elfutils-libelf-devel-static-0.125-3.el5.x86_64.rpm glibc-headers-2.5-24 (x86_64) a.) requires kernel-headers-2.6.18-92 (x86_64) as a prerequisite, as listed below glibc-devel-2.5-24 (x86_64) << both ARCH's are required. See next item. glibc-devel-2.5-24 (i386) << both ARCH's are required. See previous item. gcc-4.1.2-42.el5 (x86_64) a.) requires libgomp-4.1.2-42 (x86_64) as a prerequisite, as listed below libstdc++-devel-4.1.2-42 (x86_64) gcc-c++-4.1.2-42.el5 (x86_64) libaio-devel-0.3.106-3.2 (x86_64) << both ARCH's are required. See next item libaio-devel-0.3.106-3.2 (i386) << both ARCH's are required. See previous item. sysstat-7.0.2-1 (x86_64) unixODBC-2.2.12 (x86_64) << both ARCH's are required. See next item and Note:762206.1 unixODBC-2.2.12 (i386) << both ARCH's are required. See previous item and Note:762206.1 unixODBC-devel-2.2.12 (x86_64) << both ARCH's are required. See next item and Note:762206.1 unixODBC-devel-2.2.12 (i386) << both ARCH's are required. See previous item and Note:762206.1</p> <p>NOTE: If you download unixODBC from ftp://ftp.unixodbc.org/pub/unixODBC/ then the header and library files are distributed together in one gzipped tar file.</p> <p>RHEL4,OEL4: Refer to Note 880942.1</p> <p>SLES10:- Refer to Note 884435.1</p> <p>SLES11 :- Refer to Note 881044.1</p>	<p>Asianux 2.0 [Oracle, Red Hat] Enterprise Linux 4.0 (See Note 437123.1):</p> <ul style="list-style-type: none">default RPMs (see Note 376183.1)binutils-2.15.92.0.2compat-libstdc++-33-3.2.3compat-libstdc++-33-3.2.3 (32 bit)elfutils-libelf-0.97elfutils-libelf-devel-0.97gcc-3.4.5gcc-c++-3.4.5glibc-2.3.4-2.19glibc-2.3.4-2.19 (32 bit)glibc-common-2.3.4glibc-devel-2.3.4glibc-devel-2.3.4 (32-bit)libaio-0.3.105libaio-0.3.105 (32 bit)libaio-devel-0.3.105libgcc-3.4.5libgcc-3.4.5 (32-bit)libstdc++-3.4.5libstdc++-3.4.5 (32 bit)libstdc++-devel 3.4.5make-3.80sysstat-5.0.5 <p>Asianux Server 3 [Oracle, Red Hat] Enterprise Linux 5.0 (see Note 438766.1):</p> <ul style="list-style-type: none">default RHEL5 RPMs (see Note 376183.1)default OEL5 RPMs (see Note 401167.1)binutils-2.17.50.0.6compat-libstdc++-33-3.2.3compat-libstdc++-33-3.2.3 (32 bit)elfutils-libelf-0.125elfutils-libelf-devel-0.125gcc-4.1.1gcc-c++-4.1.1glibc-2.5-12glibc-2.5-12 (32 bit)glibc-common-2.5glibc-devel-2.5glibc-devel-2.5-12 (32 bit)libaio-0.3.106libaio-0.3.106 (32 bit)libaio-devel-0.3.106libgcc-4.1.1libgcc-4.1.1 (32 bit)libstdc++-4.1.1libstdc++-4.1.1 (32 bit)libstdc++-devel 4.1.1make-3.81sysstat-7.0.0 <p>SuSE SLES 10 (see Note 457143.1):</p> <ul style="list-style-type: none">default-RPMs (see NOTE 386391.1)binutils-2.16.91.0.5compat-libstdc++-5.0.7-22.2gcc-4.1.0gcc-c++-4.1.0glibc-2.4-31.2glibc-32bit-2.4-31.2 (32 bit)glibc-devel-2.4glibc-devel-32bit-2.4 (32 bit)libaio-0.3.104libaio-32bit-0.3.104 (32 bit)libaio-devel-0.3.104libelf-0.8.5libgcc-4.1.0libstdc++-4.1.0libstdc++-devel-4.1.0make-3.80sysstat-6.0.2 <p>Note: If you did not perform a default Linux installation, you intend to use LDAP, and you want to use the scripts oidsrvreg, oidca, or schemasync, then install the Korn shell RPM for your Linux distribution.</p> <p>SuSE SLES 11 (see Note 1081555.1)</p>	<p>Red Hat Enterprise Linux 3.0: Refer to Note 353735.1</p> <ul style="list-style-type: none">default RPMs (see Note 376183.1)compat-db 4.0.14-5.1compat-gcc-7.3-2.96.128 (32 bit)compat-gcc-c++-7.3-2.96.128 (32 bit)compat-libstdc++-7.3-2.96.128 (32 bit)compat-libstdc++-devel-7.3-2.96.128 (32 bit)control-center-2.2.0.1-13gcc-3.2.3-47gcc-c++-3.2.3-47gdb-6.1post-1.20040607.52glibc-2.3.2-95.30glibc-common-2.3.2-95.30glibc-devel-2.3.2-95.30glibc-devel-2.3.2-95.20 (32 bit)gnome-libs-1.4.1.2.90-34.2 (32 bit)libaio-0.3.96-3libaio-devel-0.3.96-3libstdc++-3.2.3-47libstdc++-devel-3.2.3-47make-3.79.1-17openmotif-2.2.3-3.RHEL3sysstat-5.0.5-5.rhel3setarch-1.3-1 <p>[Red Hat,Oracle] Enterprise Linux 4.0: Refer to Note 339510.1</p> <ul style="list-style-type: none">default RPMs (see Note 376183.1)binutils-2.15.92.0.2-13.0.0.0.2.x86_64 Download here or you can install binutils-2.15.92.0.2-18.x86_64.rpm from RHEL4 Update 3.compat-db-4.1.25-9.x86_64.rpmcompat-gcc-32-c++)see Note 430526.1)Patch 5240469 to correct bad genocccish filecompat-libstdc++-33-3.2.3-47.3.x86_64.rpmcompat-libstdc++-33-3.2.3-47.3.i386.rpmcontrol-center-2.8.0-12.x86_64.rpmgcc-3.4.3-47.x86_64.rpmgcc-c++-3.4.3-47.x86_64.rpmglibc-2.3.4-2.9.x86_64.rpmglibc-2.3.4-2.9.i386.rpmglibc-common-2.3.4-2.9.x86_64.rpmglibc-devel-2.3.4-2.9.x86_64.rpmglibc-devel-2.3.4-2.9.i386.rpmglibc-headers-2.3.4-2.9.x86_64.rpmglibc-kernheaders-2.4-9.1.87.x86_64.rpmgnome-libs-1.4.1.2.90-44.1.x86_64libaio-0.3.103-3.i386.rpmlibaio-0.3.103-3.x86_64.rpmlibgcc-3.4.3-9.EL4libstdc++-3.4.3-22.1.x86_64libstdc++-devel-3.4.3-22.1.x86_64make-3.80-5.x86_64.rpmpdksh-5.2.14-30.x86_64.rpmsysstat-5.0.5-1.x86_64.rpmutil-linux-2.12a-16.EL4.23.x86_64 (for raw devices)xorg-x11-deprecated-libs-6.8.1-23xscreensaver-4.18-5.rhel4.2.x86_64.rpm <p>[Red Hat,Oracle] Enterprise Linux 5.0 Refer to Note 421308.1 Since RHEL5/OEL5 are not recognized by runInstaller do: ./runinstaller -ignoreSysPrereqs</p> <ul style="list-style-type: none">default RHEL5 RPMs (see Note 376183.1)default OEL5 RPMs (see Note 401167.1)compat-gcc-34-3.4.6-4compat-gcc-34-c++-3.4.6-4compat-libstdc++-33-3.2.3-61.i386.rpmcompat-libstdc++-33-3.2.3-61.x86_64.rpmgcc-c++-4.1.1-52.el5.x86_64.rpm and all its dependent packages. The dependent packages are: libstdc++-devel-4.1.1-52.el5.x86_64.rpm glibc-headers-2.5-12.x86_64.rpm glibc-devel-2.5-12.i386.rpm glibc-devel-2.5-12.x86_64.rpm libgomp-4.1.1-52.el5.x86_64.rpm gcc-4.1.1-52.el5.x86_64.rpmlibXp-1.0.0-8.i386.rpmsysstat-7.0.0-3.el5.x86_64.rpmutil-linux-2.13-0.44.el5.x86_64 (for raw devices) <p>SUSE Linux Enterprise Server 9: Refer to Note 365607.1</p> <ul style="list-style-type: none">default-RPMs (see NOTE 386391.1)binutils-2.15.90.0.1.1-32.5db1-1.85-85.1gcc-3.3.3-43.24gcc-c++-3.3.3-43.24glibc-2.3.3-98.28glibc-32bit-9-200506071326glibc-devel-2.3.3-98-47glibc-devel-32bit-9-200506062332libaio-0.3.102.1.2libaio-devel-0.3.102.1.2gnome-libs-1.4.1.7-671.1gnuplot-3.7.3-256.1 (sysstat required RPM)libstdc++-3.3.3-43.24libstdc++-devel-3.3.3-43.24make-3.80-184.1	<p>RHEL 3 (Update 2): Refer to Note 351679.1</p> <ul style="list-style-type: none">default-RPMs (see NOTE 376183.1)make-3.79.1gcc-3.2.3-34glibc-2.3.2-95.20glibc-devel-2.3.2-95.20glibc-devel-2.3.2-95.20 (32 bit)compat-db-4.0.14-5compat-gcc-7.3-2.96.128 (32 bit)compat-gcc-c++-7.3-2.96.128 (32 bit)compat-libstdc++-7.3-2.96.128 (32 bit)compat-libstdc++-devel-7.3-2.96.128 (32 bit)compat-libstdc++-devel-7.3-2.96.128 (32 bit)compa-libstdc++-devel-7.3-2.96.128 (32 bit)gnome-libs-1.4.1.2.90-34.1 (32 bit)compat-libstdc++-devel-7.3-2.96.128 (32 bit)gnome-libs-1.4.1.2.90-34.1 (32 bit)openmotif21-2.1.30-8 (32 bit)setarch-1.3-1libaio-0.3.96-3libaio-devel-0.3.96-3XFree86-libs-4.3.0-62 (32bit) <p>RHEL 4: Refer to Note 390900.1 Requires My Oracle Support (MOS) patch 5201236Bug 4387087</p> <ul style="list-style-type: none">default-RPMs (see NOTE 376183.1)glibc-kernheaders-2.4-9.1.87 (x86_64)glibc-headers-2.3.4-2.9 (x86_64)glibc-devel-2.3.4-2.9 (x86_64)glibc-devel-2.3.4-2.9 (i386)libstdc++-devel-3.4.3-22.1 (x86_64)gcc-3.4.3-22.1 (x86_64)gcc-c++-3.4.3-22.1 (x86_64)sysstat-5.0.5-1 (x86_64) <p>Note: openmotif21-2.1.30-11.RHEL4.2 is required to install Oracle demos. GNU Compiler Collection (GCC) 2.96 is not supported on Red Hat Enterprise Linux 4.0. Gcc 3.2.3 is required for OCCI application</p> <p>SuSE SLES8 (Service Pack 3 or later):</p> <ul style="list-style-type: none">make-3.79.1gcc-3.3.3-43gcc-c++-3.3.3-43glibc-2.2.5-213glibc-32bit-8.1-9glibc-devel-32bit-8.1-9openmotif-2.2.2-124libaio-0.3.96-3libaio-devel-0.3.96-3 <p>SuSE SLES9:</p> <ul style="list-style-type: none">gcc-3.3.3-43gcc-c++-3.3.3-43glibc-2.3.3-98glibc-32bit-9 (Bug 4405422)glibc-devel-32bit-9 (Bug 4405422)libaio-0.3.98-18libaio-devel-0.3.98-18make-3.80openmotif-libs-2.2.2-519.1	<p>RHEL ES/AS 3 Please refer to Note: 308588.1 LD_ASSUME_KERNEL=2.4.19</p> <ul style="list-style-type: none">glibc 2.3.2-95.x86_64gcc-3.2.3-24.x86_64gcc-c++-3.2.3-24.x86_64libstdc++-3.2.3-24.i386libstdc++-devel-3.2.3-24.x86_64libstdc++-3.2.3-24.x86_64glibc-devel-2.3.2-95.3.i386 (Foot 1)glibc-2.3.2-95.6.i686make 3.79.1.x86_64gnome-libs-1.4.1.2.90-34.1.i386 (Foot 2)ORBit-0.5.17-10.4.i386audiofile-0.2.3-7.1.i386esound-0.2.28-5.1.i386gtk+-1.2.10-27.1.i386imlib-1.9.13-12.i386libpng10-1.0.13-8.i386libungif-4.1.0-15.i386tcp_wrappers-7.6-34.i386setarch-1.3-1.x86_64libaio-0.3.96-3.x86_64 <p>Note:The x86_64 rpms are on the RHEL 3 x86_64 distribution. The i386 rpms are on the RHEL 3 x86 distribution.</p> <p>o Footnote 1 This package might require the --force option during installation.</p> <p>o Footnote 2 This package might require the --force option during installation if 64-bit gnome packages are installed. Oracle recommends that you do not install 64-bit gnome packages if they are not required for other applications.</p> <p>RHEL ES/AS 4</p> <p>Please refer to Note: 353529.1</p> <ul style="list-style-type: none">a "default-RPMs" installation of RHEL AS/ES 4 update 1. Additional RPMs may be needed if a "less-than-default-RPMs" installation of RHEL AS/ES 4 update 1 is performed.compat-gcc-32-3.2.3-47.3.x86_64.rpmcompat-gcc-32-c++-3.2.3-47.3.x86_64.rpmglibc-kernheaders-2.4-9.1.87.x86_64.rpmglibc-headers-2.3.4-2.9.x86_64.rpmglibc-devel-2.3.4-2.9.x86_64.rpmlibstdc++-devel-3.4.3-22.1.x86_64.rpmglibc-devel-2.3.4-2.9.i386.rpmlibaio-0.3.103-3.x86_64.rpmORBit-0.5.17-14.i386.rpmgnome-libs-1.4.1.2.90-44.1.i386.rpm <p>The x86_64 packages are on the Red Hat Enterprise Linux 4 x86-64 distribution. The i386 packages are also on the Red Hat Enterprise Linux 4 x86-64 distribution.</p> <p>SuSE SLES8 (Service Pack 3 or higher)</p> <ul style="list-style-type: none">glibc-2.2.5-213.x86_64glibc-32bit-8.1-9.i586glibc-devel-32bit-8.1-9.i586gcc-33-3.3-43.x86_64gcc-33-c++-3.3-43.x86_64libstdc++-33-3.3-43.x86_64libstdc++-devel-33-3.3-43.x86_64make-3.79.1-42.x86_64libaio-0.3.15-138.x86_64 (This version of libaio is required for asynchronous I/O.) <p>Note: Create a symbolic link such that /usr/bin/gcc points to /opt/gcc33/bin/gcc. Otherwise the installation fails with relinking errors.</p> <p>SuSE SLES9 Please refer to Note: 361169.1 Set LD_ASSUME_KERNEL=2.4.20</p> <ul style="list-style-type: none">compat-2004.7.1-1.2compat-32bit-9-200407011229XFree86-libs-4.3.99.902-43.22XFree86-libs-32bit-9-200407011229libaio-devel-0.3.98-18.4libaio-32bit-9-200407011229libaio-0.3.98-18.4libaio-devel-32bit-9-200407011229glibc-32bit-9-200506071326glibc-devel-32bit-9-200506071326 orarun-1.8-31

			<div>Document 169706.1</div> <div><ul style="list-style-type: none">• orbit-0.5.17-330.1 (gnome-libs required RPM)• plotutils-2.4.1-575.1 (sysstat required RPM)• pdksh-5.2.14-780.1• sysstat-5.0.1-35.1• XFree86-libs-4.3.99.902.43.48</div> <div>SUSE Linux Enterprise Server 10: Refer to Note 373681.1 Since SLES10 is not recognized by runInstaller do: ./runinstaller -ignoreSysPrereqs</div> <div><ul style="list-style-type: none">• default-RPMs (see NOTE 386391.1)• glibc-devel-2.4-31.2.x86_64.rpm• gcc-4.1.0-28.4.x86_64.rpm• libstdc++-devel-4.1.0-28.4.x86_64.rpm• gcc-c++-4.1.0-28.4.x86_64.rpm• glibc-devel-32bit-2.4-31.2.x86_64.rpm• libaio-devel-0.3.104-14.2.x86_64.rpm</div> <div>SuSE Linux Enterprise Server 10 special instructions: 1. Execute runInstaller with the -ignoreSysPrereqs option.</div> <div>SUSE Linux Enterprise Server 11: Refer to Note:956194.1 for a list of required SLES11 packages Since SLES11 is not recognized by runInstaller do: ./runinstaller -ignoreSysPrereqs</div>		
Linux x86_64 EM64T AMD64 Kernel Settings	kernel.shmmni = 4096 kernel.sem = 250 32000 100 128 fs.file-max = 6815744 512* processes (for example 6815744 for 13312 processes) net.ipv4.ip_local_port_range = 9000 65500 net.core.rmem_default = 262144 net.core.rmem_max = 4194304 net.core.wmem_default = 262144 net.core.wmem_max = 1048576 kernel.shmall = physical RAM size / pagesize For most systems, this will be the value 2097152. See Note: 301830.1 for more information. kernel.shmmx = RAM times 0.5 (or higher at customer's discretion - see Note:567506.1) kernel.shmmni = 4096 kernel.sem = 250 32000 100 128 aio-max-nr=3145728 (as per Note 579108.1)	SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SHMMAX RAM times 0.5 (Note 567506.1) SHMMNI 4096 SHMALL = SHMMAX/pagesize (Note:301830.1) FILE-MAX 6815744 512* Processes IP_LOCAL_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 4194304 WMEM_DEFAULT 262144 WMEM_MAX 262144 1048576 NET.IPV4.TCP_RMEM (RMEM_DEFAULT) (RMEM_DEFAULT) (RMEM_MAX) NET.IPV4.TCP_WMEM (WMEM_DEFAULT) (WMEM_DEFAULT) (WMEM_MAX) To increase the shell limits: 1. Add the following lines in the /etc/security/limits.conf file: oracle soft nproc 2047 oracle hard nproc 16384 oracle soft nofile 1024 oracle hard nofile 65536 2. Add the following line to the /etc/pam.d/login file, if it does not already exist: session required /lib/security/pam_limits.so session required pam_limits.so Note 437123.1 Lines from the Fix section of Note 301665.1	SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SHMMAX RAM times 0.5 (note:567506.1) SHMMNI 4096 SHMALL = SHMMAX/pagesize (note:301830.1) FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 2097152 WMEM_DEFAULT 262144 WMEM_MAX 262144 1048576 NET.IPV4.TCP_RMEM (RMEM_DEFAULT) (RMEM_DEFAULT) (RMEM_MAX) NET.IPV4.TCP_WMEM (WMEM_DEFAULT) (WMEM_DEFAULT) (WMEM_MAX) To increase the shell limits: 1. Add the following lines in the /etc/security/limits.conf file: oracle soft nproc 2047 oracle hard nproc 16384 oracle soft nofile 1024 oracle hard nofile 65536 2. Add the following line to the /etc/pam.d/login file, if it does not already exist: session required /lib/security/pam_limits.so session required pam_limits.so Note 437123.1 Lines from the Fix section of Note 301665.1	SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SEMVMX 32767 SHMMAX 2147483648 One-half the size of your system's physical memory. Check your system for additional restrictions. SHMMNI 4096 SHMALL = SHMMAX/pagesize (note:301830.1) FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500 To use hugepages, or to accommodate the VLM window size on Red Hat Enterprise Linux 4.0, you must increase the default maximum size of the per-process locked memory. To increase the per-process maximum locked memory limit, add the following lines to the /etc/security/limits.conf file, where oracle is the user that administers the database. Refer Note 361468.1 : oracle soft memlock 5243000 oracle hard memlock 5243000	SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SEMVMX 32767 SHMMAX 2147483648 One-half the size of your system's physical memory. Check your system for additional restrictions. SHMMNI 4096 SHMALL = SHMMAX/pagesize (note:301830.1) FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500
Oracle Version	11.2	11.1	10.2	10.1	9.2.0
Linux Itanium OS (See Note 225710.1 for supported kernels),(See Note 1130325.1 for Support Status-Oracle Database on Linux Itanium)and Note 265262.1 for "Things to know about Linux"	NA	Not Available	<ul style="list-style-type: none">o RHEL AS/ES 3.0 (Update 4 or higher) 2.4.21-20.ELo RHEL AS/ES 4.0 (Update 1 or higher) 2.6.9-11.ELo SuSE SLES9 (SP2 or higher) 2.6.5-199o SuSE SLES-10o RHEL 5.0 (Note 748378.1) 2.6.18-8 or higher Note: for all Itanium systems using "Montecito" processors, refer to note:400227.1 for special installation instructions	<ul style="list-style-type: none">o RHEL AS/ES 2.1 (Update 6 or higher) 2.4.18-e52o RHEL AS/ES 3.0 (Update 4 or higher) 2.4.21-27.ELo RHEL AS/ES 4.0 (Update 1 or higher) 2.6.9-11.EL.smpo Red Flag Advanced Server 4.0 for Itanium 2 (China and Hong Kong only)o SuSE SLES8 (SP4 or later) 2.4.21-278o SuSE SLES9 (SP1 or later) 2.6.5-7.139 Note: for all Itanium systems using "Montecito" processors, refer to note:400227.1 for special installation instructions	<ul style="list-style-type: none">o Red Hat Enterprise AS/ES 2.1 2.4.18-e.14o Red Hat Enterprise AS/ES 3.0o Red Hat Enterprise AS/ES 4.0 2.6.9-11o SuSE SLES8o SuSE SLES9o United Linux 1.0o Red Flag Advanced Server 4.0 for Itanium 2 (China and Hong Kong only) 2.4.18-e14.ia64.rpm Note: for all Itanium systems using "Montecito" processors, refer to note:400227.1 for special installation instructions
Linux Itanium Disk Space	NA	Not Available	1.2G Database 1.5 to 3.5G Install	1.2G Database 1.5G Software 1G Companion 150M-650M Client	4.5G
Linux Itanium RAM	NA	Not Available	1Gb	512Mb 256Mb(Client/Compan)	512Mb
Linux Itanium swap	NA	Not Available	If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM
Linux Itanium tmp	NA	Not Available	400Mb	400Mb	400Mb
Linux Itanium JDK & JRE	NA	Not Available	JDK 1.4.2_08 is installed	JDK 1.4.2_02 is installed	o Sun JDK 1.4.1 is installed but is mandatory to patch it to 1.4.2
Linux Itanium Patches/ Packages	NA	Not Available	Red Hat Enterprise Linux 3.0: <ul style="list-style-type: none">• make-3.79.1-17• control-center-2.2.0.1-13• gcc-3.2.3-47• gcc-c++-3.2.3-47• gdb-6.1post-1.20040607.52• glibc-2.3.2-95.30• glibc-common-2.3.2-95.30• glibc-devel-2.3.2-95.30• glibc-devel-2.3.2-95.20 (32 bit)• compat-db-4.0.14-5.1• compat-gcc-7.3-2.96.128• compat-gcc-c++-7.3-2.96.128• compat-libstdc++-7.3-2.96.128• compat-libstdc++-devel-7.3-2.96.128• gnome-libs-1.4.1.2.90-34.2 (32 bit)• libstdc++-3.2.3-47• libstdc++-devel-3.2.3-47• openmotif-2.2.3-3.RHEL3• sysstat-5.0.5-5.rhel3• setarch-1.3-1• libaio-0.3.96-3• libaio-devel-0.3.96-3 Red Hat Enterprise Linux 4.0:	RHEL ES/AS 2.1 (Update 6 or higher) <ul style="list-style-type: none">• gcc-2.96-129.7.2• gcc-c++-2.96-129.7.2• glibc-2.2.4-32.18• libaio-0.3.92-1• libaio-devel-0.3.92-1• libstdc++-2.96-129.7.2• libstdc++-devel-2.96-129.7.2• make-3.79.1-8• openmotif-2.1.30• cfs-1.0.11 (mentioned in 10.1.0.4 Release Note but cannot find this rpm) RHEL ES/AS 3 (Update 1 or higher) <ul style="list-style-type: none">• binutils-2.14.90.0.4-35• compat-db-4.0.14-5• compat-gcc-7.3-2.96.128• compat-gcc-c++-7.3-2.96.128• compat-libstdc++-7.3-2.96.128• compat-libstdc++-devel-7.3-2.96.128• control-center-2.2.01-13• gcc-3.2.3-20• gcc-c++-3.2.3-20• glibc-2.3.2-95.3	All IA64 OS Versions - for Async I/O functionality to work you need to install Patch 3016968 on top of 9.2.0.4.0 or 9.2.0.5.0 RHEL ES/AS 2.1 <ul style="list-style-type: none">• glibc 2.2.4-29• gcc 2.96.0• Linux Header Patch 2.4.18 (available from Intel)• libaio-0.3.92-1 RHEL3 1. Put gcc296 and g++296 first in \$PATH variable by creating the following symbolic links. These are required for the relinking of some Oracle binaries (as root) # mv /usr/bin/gcc /usr/bin/gcc323 # mv /usr/bin/g++ /usr/bin/g++323 # ln -s /usr/bin/gcc296 /usr/bin/gcc # ln -s /usr/bin/g++296 /usr/bin/g++ 2. hostname command should return the fully qualified hostname as shown below: - # hostname

			<div>Document 169706.1</div> <div><ul style="list-style-type: none">• binutils-2.15.92.0.2-10.EL4• compat-db-4.1.25-9• control-center-2.8.0-12• gcc-3.2.3-47 (OCCI does not support 3.4.3)• gcc-c++-3.2.3-47 (OCCI does not support 3.4.3)• glibc-2.3.4-2• glibc-common-2.3.4-2• gnome-libs-1.4.1.2.90-44.1• libaio-0.3.102-1• libstdc++-3.4.3-9.EL4• libstdc++-devel-3.4.3-9.EL4• make-3.80-5• pdksh-5.2.14-30• sysstat-5.0.5-1• compat-libstdc++-33-3.2.3-47.3 Bug 4605635</div> <div>SUSE Linux Enterprise Server 9:</div> <div><ul style="list-style-type: none">• gcc-3.3.3• gcc-c++-3.3.3• glibc-2.3.3• libaio-0.3.102-1.2ia64• libaio-devel-0.3.102-1.2ia64• make-3.80</div>	<div><ul style="list-style-type: none">• gnome-libs-1.4.1.2.90-34.2• make-3.79-1.17• openmotif21-2.1.30-8.i386.rpm• setarch-1.3-1</div> <div>RHEL ES/AS 4 (Update 1 or higher)</div> <div><ul style="list-style-type: none">• binutils-2.15.92.0.2-13• compat-db-4.1.25-9• control-center-2.8.0-12• gcc-3.4.3-22.1• gcc-c++-3.4.3-22.1• glibc-2.3.4-2.9• glibc-common-2.3.4-2.9• make-3.80-5<div>Note: openmotif21-2.1.30-11.RHEL4.2 is required to install Oracle demos. GNU Compiler Collection (GCC) 2.96 is not supported on Red Hat Enterprise Linux 4.0. Gcc 3.2.3 is required for or OCCI application.</div></div> <div>SUSE SLES8 (Service Pack 4 or higher)</div> <div><ul style="list-style-type: none">• gcc-3.2.2-54• glibc-2.2.5-230• make-3.79.1-328• openmotif-2.2.2-522</div> <div>SUSE SLES9 (Service Pack 1 or higher)</div> <div><ul style="list-style-type: none">• binutils-2.15.90.0.1.1-32.5• gcc-3.3.3-43.28• gcc-c++-3.3.3-43.28• glibc-2.3.3-98.38• libaio-0.3.98-18.3• libaio-devel-0.3.98-18.3• make-3.80-184.1• openmotif-libs-2.2.2-519.4</div>	<div>- hostname.domainname</div> <div>3. If any Java packages are installed on the system, unset the Java environment variables, for example JAVA_HOME.</div> <div>4. Define and export the environment variable LD_ASSUME_KERNEL before starting the install process: - \$ export LD_ASSUME_KERNEL=2.4.19</div> <div>5. Relink error for ins_oemagent.mk - Click ignore and complete the install. Apply the patch 3119415</div> <div>6. Apply 9.2.0.4 patchset (patch 3095277) for Linux Itanium in order to be certified and supported.</div> <div>RHEL4 9.2.0.7 patchset is required minimum patchset</div> <div><ul style="list-style-type: none">• binutils-2.15.92.0.2-13• compat-db-4.1.25-9• control-center-2.8.0-12• gcc-3.4.3-22.1• gcc-c++-3.4.3-22.1• glibc-2.3.4-2.9• glibc-common-2.3.4-2.9• make-3.80-5<div>Define and export the environment variable LD_ASSUME_KERNEL before starting the install process: - \$ export LD_ASSUME_KERNEL=2.4.19</div></div> <div>SuSE SLES9 The following requirements are needed for a successful installation of Oracle 9iR2 Linux Itanium on SuSE SLES9: 1. Apply 9.2.0.5 patchset (patch 3501955). 2. After installing 9.2.0.5 patchset you must install patch 4566648 to fix the following 2 issues 4566551: BACKING STORE (BSP) NEEDS PROPER ALIGNING FOR SLES9 4566614: BSP(BACKING STORE) VALUE SHOULD BE CHECKED BEFORE COPYING THE MEMORY SEGMENT 3. There is a known issue, where creation of JavaVM fails during custom DB creation. Please use the workaround described as follows in case of custom Database creation.</div> <div>Remove the following eight shared libraries from \$ORACLE_HOME/javavm/admin/ and restore them else where before starting database creation. libjox9oracle_aurora_ncomp_java.so libjox9oracle_aurora_server_tools_loadjava.so libjox9oracle_aurora_sqljdecl.so libjox9oracle_net_nt.so libjox9oracle_security_jwallet.so libjox9oracle_sql.so libjox9org_omg_CORBA_2_3_portable.so libjox9sun_security_action.so</div>
Linux Itanium Kernel Settings	NA	Not Available	Not Available	<div>SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SHMMAX RAM times 0.5 (Note 567506.1) SHMMNI 4096 SHMALL = SHMMAX/pagesize (note:301830.1) FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 2097152 WMEM_DEFAULT 262144 WMEM_MAX 262144 WMEM_MAX 262144 WMEM_MAX 262144 NET.IPV4.TCP_RMEM (RMEM_DEFAULT) (RMEM_DEFAULT) (RMEM_MAX) (RMEM_MAX) NET.IPV4.TCP_WMEM (WMEM_DEFAULT) (WMEM_DEFAULT) (WMEM_MAX) (WMEM_MAX)</div>	<div>SEMMSL 250 SEMMNS 32000 SEMMNI 128 SEMOPM 100 SEMVMX 32767 SHMMAX 2147483648 One-half the size of your system's physical memory. Check your system for additional restrictions. SHMMNI 4096 SHMALL = SHMMAX/pagesize (note:301830.1) FILE-MAX 65536 IP_LOCAL_PORT_RANGE 9000 65500 WMEM_MAX 262144 NET.IPV4.TCP_RMEM (RMEM_DEFAULT) (RMEM_DEFAULT) (RMEM_MAX) (RMEM_MAX) NET.IPV4.TCP_WMEM (WMEM_DEFAULT) (WMEM_DEFAULT) (WMEM_MAX) (WMEM_MAX)</div>
Oracle Version	11.2	11.1	10.2	10.1	
Linux on 64-bit zSeries	<div>Note:1306889.1 Requirements for Installing Oracle 11gR2 on RHEL 5</div> <div>Note:1290644.1 Requirements for Installing Oracle 11gR2 64-bit on SLES 11</div> <div>Note:1308859.1 Requirements for Installing Oracle 11gR2 on SLES 10</div>	Not available	<div>Note:415182.1 DB Install Requirements Quick Reference - zSeries based Linux</div>	<div>Note:415182.1 DB Install Requirements Quick Reference - zSeries based Linux</div>	
Oracle Version	11.2	11.1	10.2	10.1	9.2.0
Linux on Power PC OS (See Note 225710.1 for supported kernels) and Note 265262.1 for "Things to know about Linux"	NA	Not Available	<div>o Red Hat Enterprise Linux AS/ES 5.0 (Update 1 or later) 2.6.18-53.el5 o Red Hat Enterprise Linux AS/ES 4.0 (Update 1 or later) 2.6.9-11.EL o SUSE Linux Enterprise Server 9.0 2.6.5-7.191-pseries64 o SUSE Linux Enterprise Server 10.0 o Asianux 2.0</div> <div>See Note:341507.1 for further information</div>		
Linux on Power PC Disk Space	NA	Not Available	1.2G Database 1.5 to 3.5G Install		
Linux on Power PC RAM	NA	Not Available	1Gb		
Linux on Power PC swap	NA	Not Available	If RAM = 1024MB to 2048Mb then 1.5 times RAM elseif RAM > 2048MB and < 8192MB then match RAM else RAM > 8192MB then .75 times RAM		

Linux on Power PC tmp	NA	Not Available	400Mb		
Linux on Power PC JDK & JRE	NA	Not Available	JDK 1.4.2_08 is installed		
Linux on Power PC Patches/ Packages	NA	Not Available	<p>Please refer to Note: 341507.1</p> <p>Red Hat Enterprise Linux 4.0:</p> <ul style="list-style-type: none">binutils-2.15.92.0.2-13compat-libstdc++-33-3.2.3-47.3 (ppc64)compat-libstdc++-33-3.2.3-47.3 (ppc) <p>Fix for: /usr/lib/libstdc++.so.5: No such file or directory (per Rel Notes)</p> <p>java.lang.ExceptionInInitializerError using OUI Note 427754.1</p> <ul style="list-style-type: none">gcc-3.4.3-22.1 (ppc)gcc-ppc32-3.4.3-22.1 (ppc)gcc-c++-3.4.3-22.1 (ppc)gcc-c++-ppc32-3.4.3-22.1 (ppc)glibc-2.3.4-2.9 (ppc64)glibc-2.3.4-2.9 (ppc)glibc-devel-2.3.4-2.9 (ppc)glibc-devel-2.3.4-2.9 (ppc64)libaio-0.3.103-3 (ppc)libaio-0.3.103-3 (ppc64)libaio-devel-0.3.103-3 (ppc)libgcc-3.4.3-22.1 (ppc)libgcc-3.4.3-22.1 (ppc64)libstdc++-3.4.3-22.1 (ppc)libstdc++-devel-3.4.3-22.1 (ppc64)make-3.80-5 (ppc) <p>SUSE Linux Enterprise Server 9:</p> <ul style="list-style-type: none">gcc-3.3.3-43.34gcc-64bit-9-200505240008gcc-c++-3.3.3-43.34glibc-2.3.3-98.47glibc-64bit-9-200506062240libgcc-3.3.3-43.34libgcc-64-bit-9-200505240008libstdc++-3.3.3-43.34libstdc++-devel-3.3.3-43.34libaio-0.3.102-1.2libaio-64bit-9-200502241152libaio-devel-0.3.102-1.2libaio-devel-64bit-9-200502make-3.80-184.1binutils-2.15.90.0.1.1-32.10binutils-64bit-9-200505240008 <p>An error is generated while installing Oracle Database 10.2.0.1 on Red Hat Enterprise Linux 4.0 Update 2 or later and SUSE Linux Enterprise Server 9 withservice pack 2 or later. Most of the times, the error is generated when you perform any of the following tasks:</p> <ul style="list-style-type: none">While installing Oracle Database 10.2.0.1 after a fresh and complete installation of Red Hat Enterprise Linux 4.0 Update 2While installing Oracle Database 10.2.0.1 after a fresh and complete installation of SUSE Linux Enterprise Server 9 with service pack 2 or laterWhen you start dbca or netca from the command line or Oracle Universal Installer, if Standard installation is selected <p>Workaround: Before installing Oracle Database 10g release 2, verify the contents of the /etc/resolv.conf file. Edit the file to make the following change: Change the line similar to: domain=my.net.com To: search=my.net.com The original /etc/resolve.conf file can be restored after the database installation is complete.</p> <p>You must install the IBM XL C/C++ Advanced Edition V7.0 for Linux Runtime Environment Component and XL Optimization Libraries component from the following link: IBM link This URL contains information and installation instructions. All the above installations must to be done before installing Oracle database. On SUSE Linux Enterprise Server 9, install the following components:</p> <ul style="list-style-type: none">The RTE component: vacpp.rte.70.sles9.jan2006.update.tar.gzThe XL Optimization Libraries: vac.lib.70.sles9.tar <p>On Red Hat Enterprise Linux 4, install the following components:</p> <ul style="list-style-type: none">The RTE component: vacpp.rte.70.rhel4.dec2005.update.tar.gzThe XL Optimization Libraries: vac.lib.70.rhel4.tar <p>Relink of 10.2 fails in Linux on Power After upgrade to RHEL U2. Apply Patch 4767801</p>		
Linux on Power PC Kernel Settings	NA	Not Available	<p>SEMMSL 250</p> <p>SEMMNS 32000</p> <p>SEMMNI 128</p> <p>SEMOPM 100</p> <p>SHMMAX RAM times 0.5 (Note 567506.1)</p> <p>SHMMNI 4096</p> <p>SHMALL = SHMMAX/pagesize (note:301830.1)</p> <p>FILE-MAX 65536</p> <p>IP_LOCAL_PORT_RANGE 9000 65500</p> <p>RMEM_DEFAULT 262144</p> <p>RMEM_MAX 2097152</p> <p>WMEM_DEFAULT 262144</p> <p>WMEM_MAX 262144</p>		
Oracle Version	11.2	11.1	10.2	10.1	

2021/7/22		Document 169706.1			
Mac OS X	NA	Not Available	Mac OS X Server 10.5.4 (Intel x86-64) Note: Only 10.2.0.4 is available and certified only on Mac OS X Server 10.5.4 (Intel x86-64) See the 10.2 Install Guide for MAC OS X (Intel)	Mac OS X Server 10.4(PowerPC) Mac OS X Server 10.3.9(PowerPC) Mac OS X Server 10.3.6(PowerPC)	
Mac OS X Disk Space	NA	Not Available	1.2GB (optional pre-configured database) 1.5GB to 3.5GB (software, depending on installation type)	1.2G Database 1G Software 1G Companion 150M-1G Client	
Mac OS X RAM	NA	Not Available	1GB or more	512Mb 256Mb(Client/Compan)	
Mac OS X swap	NA	Not Available	Equal to RAM (or more)	1Gb or match RAM 512Mb(Client/Compan)	
Mac OS X tmp	NA	Not Available	400Mb	400Mb	
Mac OS X JDK	NA	Not Available	JDK 1.4.2_16 or higher	JDK 1.4.2_05 needs to be already installed Do this command to verify: \$ /Library/Java/Home/bin/java -version	
Mac OS X Patches/ Packages	NA	Not Available	Xcode 3.0 or later GNU C compiler (gcc) version 4.0.1 or later (this version of gcc is included in Xcode 3.0 or later) JDK 1.4.2_16 or higher (with the JNDI extension if you want to use the Oracle JDBC/OCI drivers)	Required Packages: <ul style="list-style-type: none">• Xcode Tools 1.1 or higher• GNU C compiler (gcc) version 3.3 20030304 (Apple Computer, Inc. build 1635) *This version of gcc is included in Xcode Tools 1.2 or higher or in the Dec 2003 gccLongBranch Tools update.• X11 for Mac OS X and X11 SDK for Mac OS X (Spatial only)• OpenMotif 2.2.3 or higher (Spatial only)	
Mac OS X Kernel Settings	NA	Not Available	Following are the recommended kernel parameters: kern.sysv.semmsl 87381 kern.sysv.semmsn 87381 kern.sysv.semmpi 87381 kern.sysv.semmpu 87381 kern.sysv.semum 10 kern.sysv.shmall 2097152 kern.sysv.shmmax Half the size of physical memory (in bytes) kern.sysv.shmmp 4096 kern.maxfiles 65536 kern.maxfilesperproc 65536 net.inet.ip.portrange.first 1024 net.inet.ip.portrange.last 65000 kern.corefile core kern.maxproc 2068 kern.maxprocpid 2068 To improve the performance of the software on Mac OS X systems, you must increase the following shell limits: Maximum number of open file descriptors 65536 Maximum number of processes available to a single user 2068 To increase the shell limits: 1. Change directory to the following directory: % cd /System/Library/StartupItems/IPServices 2. Open the IPServices script using any text editor. 3. Add the following ulimit commands to the start of the StartService function in this script: ulimit -Hu 2068 ulimit -Su 2068 ulimit -Hn 65536 ulimit -Sn 65536 4. Add the same ulimit commands to the /etc/rc script, before the SystemStarter command.	Note: If you need Mac OS X Server 10.3.6, please go to here: Apple URL To obtain the latest update for Mac OS X Server 10.3.6, please go to: Latest Update To install Oracle 10.1.0.5 on MACOSX 10.4 (Tiger OS) PowerPC based systems : Install Oracle Database 10.1.0.3 - software only. Please do not create the database. Perform a software upgrade from 10.1.0.3 to 10.1.0.5. Invoke OUI from 10.1.0.5 and choose software upgrade only. After 10.1.0.5 software upgrade, create database using the Database Configuration Assistant (DBCA)". DBCA is found under \$ORACLE_HOME/bin . Just Invoke this executable and choose create database option. Following are the recommended kernel parameters: kern.corefile core kern.sysv.semmpi 87381 kern.sysv.semmsn 87381 kern.sysv.semmpu 87381 kern.sysv.semmsl 87381 kern.sysv.semum 10 kern.sysv.maxproc 2068 kern.sysv.maxprocpid 2068 To improve the performance of the software on Mac OS X systems, you must increase the following shell limits: Shell Limit / Hard Limit Maximum number of open file descriptors 65536 Maximum number of processes available to a single user 2068 To increase the shell limits: Change directory to the following directory: # cd /System/Library/StartupItems/IPServices Open the IPServices script using any text editor. Add the following ulimit commands to the start of the StartService function in this script: ulimit -Hu 2068 ulimit -Su 2068 ulimit -Hn 65536 ulimit -Sn 65536 Add the same ulimit commands to the /etc/rc script, before the SystemStarter command.	
Oracle Version	11.2	11.1	10.2	10.1	9.2.0

RELATED DOCUMENTS

8.0.5 to 10g Installation Guides (for AIX, HP, Sun, Tru64, Linux, MacOSX)
[http://otn.oracle.com/documentation/content.html](#)
[Note 43507.1](#) ALERT:HP-UX: Patch Levels Advised
[Note 169426.1](#) How to change kernel mode of IBM AIX 5L (5.1)
[Note 17094.1](#) TECH: Unix Virtual Memory, Paging & Swapping explained

[Note 189256.1](#)UNIX: Script to Verify Installation Requirements for Oracle 9.x version of RDBMS
[Note 250262.1](#)RDA 4 - Health Check / Validation Engine Guide
[Note 314422.1](#)Remote Diagnostic Agent (RDA) 4 - Getting Started
[Note 1156586.1](#)Master Note For Oracle Database Installation
[Note 1154613.1](#)Master Note For Cloning Oracle Database Server ORACLE_HOME's Using the Oracle Universal Installer (OUI)
[Note 1152016.1](#)Master Note For Oracle Database Upgrades and Migrations
[Note 1151427.1](#)Master Note For Oracle Database Downgrade
[Note 1157464.1](#)Master Note on Oracle Universal Installer (OUI) for installing Oracle Database Software
[Note 1157463.1](#)Master Note For Oracle Database Client Installation

[Note 293369.1](#)Master Note For OPatch
[Note 851598.1](#)Master Note of Linux OS Requirements for Database Server

OS SPECIFIC COMMANDS

To Find Swap, RAM, and OS Version

OS	SWAP	RAM	OS VERSION
AIX	/usr/sbin/lspvs -a	/usr/sbin/lssattr -HE -l sys0 -a realmem	oslevel
HP PA-RISC	swapinfo -a	grep "Physical:" /var/adm/syslog/syslog.log	uname -a
HP Itanium	swapinfo -a	/usr/contrib/bin/machinfo grep -i Memory	uname -a
Tru64	swapon -s	vmstat -P	/usr/sbin/sizer -v
Solaris	swap -l	/usr/sbin/prtconf grep -i memory	uname -r
Linux	free	free	uname -a
Mac OS X	# df -h /	# /usr/sbin/system_profiler SPHardwareDataType grep Memory	# sw_vers

To Determine the Unix Kernel Parameters

OS	LOCATION	COMMAND TO SEARCH
AIX	automatically configured	do 'env' for LINK_CNTRL, To determine if AIX is 64 bit enabled do 'genkex grep 64' or 'genkex grep call' (see Note 1019106.102)
HP	/stand/system or use SAM -->Kernel Configuration	/etc/sysdef, /usr/sbin/kmtune (kmtune desupported in 11.31, use /usr/sbin/kctune -v), or /usr/sbin/kcweb -F
Tru64	/etc/sysconfigtab	/sbin/sysconfig -q ipc or /sbin/sysconfig -q vm or /sbin/sysconfig -q proc
Solaris	/etc/system	"/etc/sysdef grep SHM" or "/etc/sysdef grep SEM"
Linux	/usr/src/linux/include/asm/shmparam.h /usr/src/linux/include/linux/sem.h /proc/sys/kernel/sem /proc/sys/kernel/shmall /proc/sys/kernel/shmmax /proc/sys/kernel/shmmni	ipcs -lms
Mac OS X	/etc/sysctl.conf	"# /usr/sbin/sysctl -a grep "

O/S Software Installed Packages and Patches

OS	COMMAND FOR PACKAGES	COMMAND FOR PATCHES
AIX	lspp -w grep -i "software title" (applies to APARs and PTFs)	/usr/sbin/instfix -ik patch number
HP	Prior to 11: /usr/sbin/swlist -lproduct PH* hp-ux 11 and after: * /usr/sbin/swlist -l patch *.*,c=patch * /usr/contrib/bin/show_patches (from patch PHCO_19550)	/usr/sbin/swlist -l fileset grep -i
Solaris	/bin/pkginfo -l grep -i "software title"	/bin/showrev -p
Tru64	/usr/sbin/setld -i grep -i "software title"	/usr/sbin/setld -i more For patchkits: /usr/sbin/dupatch -track -type kit
Linux	To see if a particular RPM is installed (without the architectur): \$ rpm -qa grep "package name" To see if a particular RPM is installed (with the architectur): \$ rpm -qa --qf "%{NAME}-%{VERSION}-% {RELEASE}_%{ARCH}\n" grep "package name" To see what RPM provided a particular object/library: \$ rpm -q --whatprovides --qf "%{NAME}-%{VERSION}- %{RELEASE}_%{ARCH}\n" "full path/library name" To see the contents listing of an RPM: \$ rpm -ql "RPM name" For example: \$ rpm -ql compat-libstdc++-33-3.2.3- 47.3.ppc /usr/lib/libstdc++-3.2.3.so.5 /usr/lib/libstdc++-3.2.3.so.5.0.7	
Mac OS X	to be supplied later	to be supplied later

To Check if an OS is 64 bit Capable or not

OS	COMMAND	RESULTS
Aix	lspp -L grep 64bit	It should return "bos.64bit"
HP	getconf KERNEL_BITS	It should return "64"
Solaris	/bin/isainfo -kv	If the isainfo command does not exist it is not 64-bit. It should return "64-bit sparcv9 kernel modules"

To Check version of Compiler

COMPILER	COMMAND
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C/C++	do a "which cc", then cd to the directory it is in, then do a "what cc" except for Linux, on Linux do a "rpm -qa grep egcs
COBOL	cd \$COBDIR and do "more cobver"
Fortran	do a "which f77", then cd to directory it is in, then do a "what f77"

CHANGE HISTORY

=====

- **111704**
- HP section - HP Doc BUG ID: KBRC00003627is not applicable to 11.22 and 11.23
- TRU64 section - Added OSFX11 as required package for 10g and 9.2
- **120404**
- Linux section - Added Asianux and Red Flag requirements, Updated certified OS's and their kernel versions and the required OS packages for each OS
- **121204**
- Linux section - Added reference to [Note 252217.1](#) for additional setup requirements for RHEL3 and 9.2 x86
- Added additional steps for SLES9 for 9.2 32bit x86
- **121904**
- Linux section - Updated Linux Itanium 10g on SuSE SLES9 required RPMs
- **122604**
- Linux section - Added LD_ASSUME_KERNEL=2.4.19 to 10g RHEL3 section
- **122704**
- MacOSX section was added
- **010205**
- Linux section - 10g SuSE SLES9 references to gcc-3.3-43 and gcc-c++-3.3-43 were corrected to gcc-3.3.3-43 and gcc-c++-3.3.3-43
- **011005**
- Linux section - Added reference to [Note 265262.1](#) for "Things to know about Linux"
- **012905**
- General section - Removed reference to the HCVE script for Linux 64 and added references to newly created Linux IA64 and Linux AMD64.
- Added reference to newly created Mac OSX HCVE script
- **020505**
- HPUX section - Added 11.23 (PA-RISC) (64bit) to 10g and 9.2 as a certified OS
- Sun section - Added SUNWuiu8,SUNWulcf (if [Bug 4025250](#) occurs) to 10g OS packages
- **022505**
- AIX section - Added AIX_THREAD_SCOPE=S to 9.2
- TRU64 section - Added VM_BIGPG_ENABLED 0 to 10g and 9.2 kernel settings
- General section end of Note - Updated the swlist commands for checking HP OS patches and packages
- **022805**
- HPUX section - For 10g and 9.2 added/update that MAXSWAPCHUNKS, SEMMAP, and VX_NCSIZE are obsolete on 11.23 PA-RISC and IPF and no longer need to be set also to now set NCSIZE = (NINODE+1024)
- **031805**
- HPUX section - Update 10g 11.11 OS patches that PHNE_28476 is superseded by PHNE_29825, PHCO_26331 s/b PHCO_27958, PHKL_26468 s/b PHKL_27316
- **040905**
- TRU64 section - Removed 5.1 as being certified with 9.2, updated that 5.1a requires PK6 now versus PK3 and updated that 5.1b requires PK4 now versus PK2
- Also added require patches for each newly required patchkit
- Modified the new_wire_method to indicate thatif you are at 5.1a PK6 it should be set to 1
- **041005**
- Sun section - Added Solaris 10 as now certified with 10g and 9.2 and special instructions
- Linux section - Added RHEL4 as now certified and its needed environment settings and rpms
- **041605**
- General section - Added Change History
- **042305**
- Linux section - 9.2 x86 for SuSE9 added needed [patch 3809563](#) if applying 9.2.0.5 patchset
- Clarified that [patch 4190568](#) needs to be applied on top of 9.2.0.6 patchset
- Added Async IO [patch 3016968/patch 3208258](#) in 9.2 x86 section
- Added Async IO [patch 3016968](#) in 9.2 IA64 section
- **042505**
- Tru64 section - 817 column changed vm-mapentries that it applies to OS versions below 5.0, starting in 5.0 it is autoset
- **043005**
- AIX section - Kernel Settings, clarified that AIXTHREAD_SCOPE is an environmental setting not a kernel setting
- **052205**
- Linux section - 10g x86_64 for SuSE SLES9 added glibc-32bit-8.1-9 and glibc-devel-32bit-8.1-9 as required packages per <>
- Sun section - made SUNWmfrun a mandatory patch for 10g and 9.2 per <>
- Updated Kernel settings for Solaris 10 because most are obsoleted
- **060305**
- Linux section - Corrected the 9.2 section that [patch 3016968](#) and [patch 3208258](#) are specific to RHEL3 and not all x86 OSs
- **070305**
- OS Specific Commands section - O/S Software Installed Packages and Patches Linux section - Added RPM commands to list an RPMs contents and query RPMs to see which one provides a specific object library
- **072205**
- Linux section - 9.2 Linux Itanium Added RHEL3 requirements
- Linux section - 10g IBM zSeries SuSE SLES9 added libc6.2-2.so.3 32bit as a requirement per <>
- **072305**
- Linux section - Added 10.2 Linux x86 requirements
- HPUX section - updated 9.2 11.0 patch section with new superseded patches
- **082205**
- Sun section - Modified the Solaris 10 special instructions per <>
- TRU64 section - corrected value of SHM_MIN to be 1 instead of 1024 in the 9.2 section per <>
- **082905**
- AIX section - Added 10gR2 requirements, presently OTN states to use 10gR1 requirements
- HP section - Added 10gR2 requirements, presently OTN states to use 10gR1 requirements
- Added note to ensure that unzip 5.5 or later is being used in the 10g and 9.2 section per <>
- Sun section - Added 10gR2 requirements, presently OTN states to use 10gR1 requirements
- **091705**
- Sun section - Updated 10gR2 requirements since the Installation Guide is now available
- **091805**
- AIX section - Updated 10gR2 requirements since the Installation Guide is now available
- HPUX section - Updated 10gR2 requirements since the Installation Guide is now available
- Linux section - Updated 10gR2 requirements since a new Release Note has the correct RPMs for RHEL4 and SuSE9
- **092605**
- Pre-Installation Scripts - Added new heading
- Added 10gR2 Pre_Installation Script Notes
- **100405**
- HPUX section - Added comment to 9.2 NCALLOUT is obsolete in 11.23
- Sun section - added SUNWuiu8, SUNWulcf as required to 9.2
- **100705**
- AIX section - Added APAR IY68989 to 10gR2 AIX 5.3 per Release Note
- Related Documents - added 10gR2 Pre-Installation scripts
- **101005**
- Linux section - Added [Note 303859.1](#) for 9206 on RHEL4
- Added [Patch 3208258](#) as needed for AIO on SLES9
- **101905**
- Linux section - Added RHEL4 for 10gR1 x86_64 requirements now that it is certified
- **110705**
- Linux section - Added 10gR2 x86_64 requirements now that it is certified
- Added glibc-devel rpm as required for 9.2 x86 on RHEL3
- Added xFree86-libs as required to 10gR1 x86_64 for RHEL4 ([Bug 4387087](#))
- Added glibc-devel-32bit-9 to 10gR1 x86_64 for SuSE SLES9 ([Bug 4405422](#))
- Added to 9.2 IA64 the SuSE SLES9 is now certified
- Added to 10gR2 on RHEL3 that it requires Update 4
- HPUX section - Added supecedes of patches for 10gR1 on 11.11
- **111105**
- entire document - made all patches/bugs hyperlinks, removed double entry of compat-db in RHEL3 for 10gR2 X86_64
- **111805**
- Linux section - Added needed RPMs and reference to Ivan Kartik document for install of 9.2 on SuSE SLES 9
- **120805**
- Linux section - Added RHEL4 to 10gR1 Linux IA64 as certified - Added Linux on Power PC requirements
- **121105**
- HPUX section - Updated the 9.2 11.11 patch list
- Sun section - Updated special instructions for Solaris 10 and 10gR1
- **121805**
- Linux section - Added 10gr2 on Linux IA64
- **010606**
- Linux section - Added compat-libstdc++-296-2.96-132.7.2 (i386) to 10gR1 Linux x86 for RHEL4
- Added RHEL4 for 9.2 x86_64 as certified
- Sun section - modified noexec_user_stack is not obsolete to Solaris 9, it is actually still valid for Solaris 9 and 10
- **012706**
- Pre-Installation Scripts - Added 10gR2 Linux AMD64/EM64 script
- Linux section - Changed 10gR2 Linux x86_64 for RHEL3 to show the compat-gcc, compat-gcc-c++, compat-libstdc++, and compat-libstdc++-devel as 32bit RPMs not 64bit RPMs
- Added glibc-32bit, glibc-devel-32bit, libaio, libaio-devel to 10gR2 Linux x86_64 for SLES9
- **021106**
- Linux section - corrections to 10gR2 Linux on PPC - RHEL4 and SLES9 RPMs
- Added reference to Note:353529.1 and added the suggested RHEL4 RPMs for 9.2.0.7 on Linux x86_64
- Added XFree86-libs-4.3.0-78.EL.i386.rpm per Remark 56677.1

- **021306**
-HP section - Added the new 10gR2 HPUX Itanium requirements
- Linux section - broke out the section into four sections - Linux x86, Linux x86_64, Linux Itanium, and Linux on Power PC for ease of reading
- **021506**
-TRU64 section - Incorporated Remark 56834.1 and modified the 9.2 kernels related to "per_proc":ref: [TRU64 Tuning Oracle 817 and higher](#) and [Note:201200.1](#)
- Linux section - Incorporated Remark 56763.1 - Removed reference to xscreensaver-4.16-2.6 from 10gr2 x86 and x86_64 for SuSe SLES9
- **021706**
-HPUX section - For 10.2 HPUX Itanium added OS patch requirements for ProC/C++/OCI/OCCI/XML
- **022406**
- -HPUX section - Added supercessions to 10gR2 HPUX PA-RISC and Itanium patches
- **022806**
-Linux section - Added libaio-0.3.96 to 10gR2 X86
- **030606**
-Linux section - Changed the kernel version for 10gR2 on Linux Itanium for SuSe SLES9 from 2.6.5-7.139 to 2.6.5-7.199 which is what SP2 is.
- **031006**
-Linux section - Added compat-libstdc++-33-3.2.3-47.3 to 10.2 RHEL4 Linux x86 per Remark:57408.1
- modified gcc and g++ RPM versions for 10.2 on RHEL4 Linux x86_64 to be 3.4.3-9.1 instead of 3.4.3-9.EL4
- Sun section - Added SUNWxcu4 per Remark 57401.1
- **031306**
-Linux section - corrected 9.2 x86_64 SuSe SLES9 details as they were referencing x86 requirements by mistake, changed note reference from Ivan Kartik's to Fabrizio Magni's
- **031606**
-Linux section - changed 9.2 on x86 on RHEL4 to also be certified with 9.2.0.5 patchset and patch 4276910
- Sun section - changed 9.2 (32bit) on Solaris 10 to be certified on minimum 9.2.0.4 patchset instead of 9.2.0.6 and 9.2 (64bit) on Solaris 10 to be certified on minimum 9.2.0.5 instead of 9.2.0.6 per My Oracle Support (MOS) - Certification
- **031706**
-HPUX section - updated the 10.1 version on HPUX 11.11 OS patches to reflect latest superseded versions.
- Linux section - changed 10.2 x86_64 on RHEL4 to add binutils-2.15.92.0.2-18.x86_64.rpm as another version of binutils that can be installed.
- **032506**
-Linux section - updated Linux Itanium for 9.2 to add RHEL4 requirements (per Remark 57699.1)
- Mac OS X section - Added that 10.1.0.3 is now certified on 10.3.9 (per Remark 57702.1)
- Sun section - Added SUNWuiu and SUNWulcf to 10.2 on Solaris 8,9, and 10 (Per Remark 57701.1)
- Added that 10.2.0.2 is now certified on Solaris x86_64/AMD64
- **041806**
-Linux section - 10.1 x86 on RHEL4 clarified the RPMs (Remarks 58081.1, , 58342.1, 58435.1)
- 9.2 x86_64 on SuSE 9, remove external reference, added LD_ASSUME_KERNEL=2.4.20 (Remark 58338.1)
- All references where SHMMNI was set lower then SHMSEG, the value of SHMMNI was set to match it (Remark 57854.1)
- 10.2 x86_64 on RHEL4 - Clarified architecture of RPMs and added RPMs as requested by T. Yoshimura and <>
- **041906**
-Linux section - 10.1 x86_64 on RHEL3 added XFree86-libs (32bit) is required.
- **043006**
-Linux section - 10.2 x86_64 on SLES9 changed glibc-32bit-8,glibc-devel-32bit-8 to -9
- **050706**
-Sun section - Added 112963-25 as a required Solaris 9 OS patch ([Bug 4712475](#)) per R. Gulledge
- **051806**
-Linux section - 9.2 x86_64 on RHEL3 added Note 308588.1 and LD_ASSUME_KERNEL=2.4.19
- 9.2 x86_64 on SLES9 added Note 361169.1 and glibc-32bit and glibc-devel-32bit
- **052406**
-Sun section - 10.2 added [Patch 4589082](#) as needed prior to install to deal with -ldce not found issue when linking proc
- **082806**
-Linux section - Removed references to ORBit-0.5.17-14.i386.rpm and gnome-libs-1.4.1.2.90-44.1.i386.rpm fo3 10g2 on RHEL4 x86_64 as no valid reference can be found.
- **091806**
-Linux section - 10.1 x86_64 on RHEL4 updated OS package requirements.
- **092206**
-Linux section - 10.2 Itanium on RHEL4 added compat-libstdc++-33-3.2.3-47.3 to OS package requirements.
- **101706**
-Linux section - 10.1 x86 on RHEL3 updated OS package requirements.
- **110706**
-Tru64 section - Added the new 10gR2 Tru64 requirements
- **112806**
-Linux section - 10.2 x86 on SLES9 updated OS requirements
- **121206**
-Linux section - all versions and platforms - changed SHMALL to formula
- **121906**
-Linux section - 10.2 x86_64 on SLES10 - added os version and package reqs
- **022707**
-HP-UX section - 10.2, 11.11 required patches - added new superseded patch numbers
- **030607**
-Added reference to note:400227.1 for all Itanium systems with "Montecito" processors
- **030607**
-Added section/links for 64-bit Linux on zSeries
- **032007**
-Added HP-UX Itanium 11.23 info for 9.2.0, 10.1.0, and 10.2.0
- **040407**
-Aix section - Added APAR IY94343 - LV Block Corruption [Note 422031.1](#) (per Remark 70417.1)
- **042507**
-Sun section - Added Solaris 10 kernel parameters
- **052307**
-AIX section - added reference to Note 282036.1 for AIX 5.3 and 5.2 patching requirements
- Linux section - modified that SHMMAX should not be set higher then 4Gb due to core dumping generation issues.
- **052507**
-HPUX section - added to the 11.31 obsolete parameters that they are applicable to PA-RISC too.
- Linux section - for the Linux on PPC added for RHEL4 that glibc-devel (ppc) and glibc-devel (ppc64) are required per Bug 5436180
- **053007**
-Related Documents section - resolved a problem with a broken link
- **061307**
-Linux section - corrected version number of libaio for RHEL4 on Linux x86 from 0.3.96 to 0.3.102-1 per Remark 73923.1
- **071807**
-Linux section - Moved footnotes for Linux x86_64 9.2 on RHEL3 directly beneath the section (per Remark 75021.1)
- Added LD_ASSUME_KERNEL to Linux Itanium on RHEL4 (per Remark 75729.1)
- Added OEL4 and OEL5 as certified for 10.2 on Linux x86 and Linux x86_64 (per Remark 75767.1)
- **072507**
-Sun section - change comment to 112760-05 to state that it is needed for Native PL/SQL only, not generic PL/SQL.
- **080107**
-Linux section - added default-rpm NOTE 386391.1 to SLES9 x86-64 section per Remark 76324.1
- **081707**
-Linux section - added 11gR1 requirements for Linux x86.
- **082207**
-Linux section - 11.1 x86 corrections, 10.2 SLES9 x86_64 corrections, made it consistent with Note 339510.1, addressed Remarks 77473.1,77604.1,77657.1,77682.1
- **091207**
-Linux section - 10.2 x86 and x86_64 for [Red Hat,Oracle] Enterprise Linux requirements added (per Remark 78415.1)
- Tru64 section - 10.2,10.1, 9.2 changed the 5.1B required patchset to match the 10.1.0.5/9.2.0.8 patchset READMEs higher level. (per Remark 78544.1)
- **091907**
-Sun section - Added patches needed for Fair Share Scheduler on Solaris 10
- Tru64 section - Clarified setting of NEW_WIRE_METHOD on 5.1B PK5
- **100307**
-Linux section - Clarified 10.2 Linux Itanium on RHEL4 requirements (per Remark 79375.1)
- Clarified 10.1 Linux Itanium section based on 10.1.0.4 Patchset Readme (per 79375.1)
- Tru64 section - changed default per_proc_stack_size to 32M to help avoid ORA-4030s (per Remark 79349.1)
- **101707**
-Main section - Removed Pre-Installation Script notes as they are now decommissioned (Remark 81013.1)
- added OPatch section
- Linux section - Added/Modified RHEL5/OEL5 10.2 Linux x86_64 rpms list per Release Note (Remark 80909.1)
- Removed reference to [Note 301830.1](#) from Linux x86 section as it is for Linux x86_64 (Remark 80978.1)
- **102207**
-Linux section - Added 11g on Linux x86_64 requirements
- **102307**
-Linux section - Updated 10.2 on Linux on PPC (Remark 81403.1)
- **110707**
-Mac OS X section - Updated certification section and fixed broken links (Remark 81782.1)
- Sun section - Fixed broken links to Sunsolve (Remark 81766.1)
- Tru64 section - Fixed broken links to HP support (Remark 81769.1)
- **111407**
-Linux section - Added net.ipv4.tcp_rmem and net.ipv4.tcp_wmem to 11g Linux x86 (Remark 82482.1)
- Modified required RPMs for OEL/RHEL5 for 10.2 on x86 as updated in [Note 419646.1](#) (Remark 82777.1)
- Removed reference to OEL5 document as it has been merged into [Note 419646.1](#) (Remark 82778.1)
- Modified required RPMs for OEL/RHEL5 for 10.2 on x86_64 as updated in [Note 421308.1](#) (Remark 82779.1)
- Removed reference to OEL5 document as it has been merged into [Note 421308.1](#) (Remark 82780.1)
- added compat-gcc-32-c++ rpm and Patch 5240469 to 10.2 on x86_64 on RHEL4
- **111607**
-AIX section - added 11g requirements
- HPUX section - added 11g requirements for HPUX Itanium
- Sun section - added 11g requirements
- **112907**
HP section - added 11.1 requirements for HPUX PA-RISC
- Removed special installation reference for 10.1 on HPUX Itanium as there are none (Remark 83375.1)

-Linux section - change RMEM_DEFAULT to 4194304 for 11.1 on RHEL5,OEL5 on X86_64 (Remark 83748.1)
-Sun section - added SUNWuiu8 and SUNWulcf to 11.1 (Remark 83714.1)
• **120507**
-Linux section - Added net.ipv4.tcp_rmem and net.ipv4.tcp_wmem to 10.2 Linux x86 (Remark 83919.1)
• **121307**
-Linux section - Modified net.ipv4.tcp_rmem and rmem_max and rmem_default to 10.2 Linux x86 (Remark 84422.1)
• **121907**
-HPUX section - Updated 11.1 and 10.2 HPUX OS patch requirements with superseding patches (Remark 84854.1)
• **013008**
-AIX section - added Bug 5496862 as a requirement for running AIX 5.3 ML 5 (Remark 91473.1)
• **022708**
-AIX section - added 6.1 as certified to 10.2 (Remark 92899.1)
-added IZ03475 for 5.3 ML7 to address ORA-27061 (Remark 92047.1)
-HP section - added kctune to OS commands now that 11.31 desupports kmtune (Remark 91954.1)
-Linux section - Update 9.2 on x86_64 on RHEL4 and removed requiriement for gnome-libs and Orbit (32bit rpms) (Remark 91893.1)
-Sun section - Added that Update 6 is required for Solaris 9 with 10.2 and Update 7 for Solaris 8 (Remark 92015.1)
• **030508**
-HP section - added more comments regarding 11.31 and -ignoresysprereqs (Remark 94177.1)
• **031808**
-Linux section - Added kernel paramaters NET.IPV4.TCP_RMEM and NET.IPV4.TCP_WMEM to x86_64 and Itanium (Remark 94274.1 and 94741.1)
• **031908**
-HPUX section - Corrected SHMMIN and SHMSEG settings for 11.1 on PA-RISC and IPF
-Sun section - Added month/date to give reference to Solaris Update levels
• **032108**
-HPUX section - Removed reference to JDK 1.1.8 for 9.2 (Remark 95270.1)
-MAC OSX - Removed broken link
• **032608**
-Linux section - Added SLES10 and Asinux 2.0 to cerified for Linux on Power for 10.2
• **041608**
-Linux section - corrected typo on compat-libstdc++-devel for Linux x86 on 10.2
• **042308**
-HPUX section - due to [Bug 6995956](#) changing formula for maxuprc to be (nproc*9/10)+1 (Remark 97557.1)
-Sun section - Added 113029-07 as a required patch for Solaris 9 if using the Fair Scheduler ref: Note 558374.1 (Remark 97290.1)
• **092308**
- All requests till September 20,2008 incorporated - Patch 6880880 details, Linux X86-64 11GR1 now pointing to correct Note 437123.1
- Obsolete kernel parameters in HP-UX 11.31 - MSGSEG & NFILE documented, added SLES-10 certification 10GR2 64 Bit on Linux (Itanium)
- 11GR1 install on Solaris 5.9 update 7 or higher is required, 11GR1 install on AIX requires 5.3 ML6 or higher is required
- OS Kernel update statement added under PURPOSE section. HP-UX 11.31 PHKL_35936 has been superseded by PHKL_38449
- 11GR1 install on AIX - PATCH 5496862 is required (see Note 390656.1).Note 567506.1 reference added to clarify SHMMAX size
• **100908**
- HP Itanium 11.31 PHKL_37185 superseded by PHKL_38038
- SUN SPARC Solaris 10 Patch 127111-02 required for 10.2.0.4.0
• **103008**
- HP-UX 11.31 with 10GR2. 4 HP-UX Patches required as per Part Number B25292-06
- AIX OS supported configuration for 11.1 as per Part Number B32076-03
- Relink of 10.2 fails in Linux on Power After upgrade to RHEL U2. Apply Patch 4767801
- SUN 10 with 11.1. Required SUN Patch 137111-04 as per Part Number B32314-02
- HP-UX on OS 11.31 supported on 9.2
• **012209**
- HP-UX superseded PPHSS_36343 with PHSS_38140
- HP-UX superseded PHSS_37201 with PHSS_38134
- AIX 5L required or above required for 10.2.0.4.0 & above as per NOTE 739371.1
- AIX 6.1 required packages for 11.1.0.6.0
- HP-RISC / HP-Itanium 11.31 support for 10.2
- Link to internal BUG 6613550 removed
- RHEL5.0 on Linux Itanium (ia64)
- OEL5 / RHEL5.0 rpm changes. Refer Note 421308.1 & Note 419646.1
- AIX issue addressed in Note 422031.1
- HP-UX 11.23 Itanium PHKL_33807 superseded by PHKL_38364
- HP-UX 11.23 Itanium PHKL_36667 superseded by PHKL_37653
- HP-UX 11.23 Itanium PHSS_37492 superseded by PHSS_34444
- HP-UX 11.23 Itanium PHSS_37498 superseded by PHSS_38138 or PHSS_39101
- HP-UX 11.23 Itanium PHSS_37492 superseded by PHSS_38134
- HP-UX 11.23 Itanium PHCO_36323 superseded by PHCO_37940
- RHEL5 certified on 10.2. Refer to Note 748378.1
• **020509**
- HP-Itanium NFLOCKS, SEMMNI & MSGTQL parameter changes for 10.2. Part Number B25293-01. Web site below :-
- http://download.oracle.com/docs/cd/B19306_01/install.102/b25293/pre_install.htm#BABJHCJI
- Solaris patches 117837-05, 117846-08 & 118682-01 are only required for Solaris X86 - BUG 6968216
- On AIX 5.3 with 9.2 use -ignoreSysPrereqs with runInstaller (Note 293750.1)
- SEMMNS, SEMVMX & SHMMNI masked as Obsolete as per <http://docs.sun.com/app/docs/doc/817-0404/appendixa-6?l=en&a=view&q=shmmax>
• **022709**
- HP-Itanium NFLOCKS, SEMMNI & MSGTQL parameter changes for 9.2 & 10.1.
- 10.2,10.1 & 9.2 - Oracle Solaris 10 install Sun patch 127111-03 (SPARC) / 127127-11 (x86-64) See Note 460424.1
• **032409**
- net.ipv4.tcp_rmem & net.ipv4.tcp_wmem are no longer required for standalone install
• **050509**
- IP_LOCAL_PORT_RANGE changes 9000 65500. Refer Note 339510.1 & Note 419646.1
- 11.31 (PA-RISC) required patches. Part Number B19067-08. Refer Section 4.1 Operating System Filesets for HP-UX 11.31. Web site below :-
- http://download.oracle.com/docs/cd/B19306_01/relnotes.102/b19067/toc.htm
- AIX with 11.1 changes:-
- xIC.aix50.rte:8.0.0.7 or later (AIX 5.3)
- xIC.rte:8.0.0.7 or later (AIX 5.3)
- xIC.aix61.rte:9.0.0.1 or later (AIX 6.1)
- xIC.rte:9.0.0.1 or later (AIX 6.1)
- rmem_default=262144 for 11.1, 10.1 & 10.2
- rmem_max for 11.1 is 4194304. rmem_max for 10.1 & 10.2 is 2097152
- wmem_default=262144
- tcp_rmem & ipv4.tcp_wmem are no longer required for standalone install
- HP-UX (Itanium & PA-RISC) with 11.1 MAXTSIZE_64BIT 1073741824
- Mac OS X - 10.2.0.4 available on Mac OS X Server 10.5 (Intel x86-64)
- Sun OS 137111-04 s/b 137137-09. Refer <http://sunsolve.sun.com/search/document.do?assetkey=1-21-137137-09-1>
- Sun OS 127111-02 s/b 127127-11. Refer <http://sunsolve.sun.com/search/document.do?assetkey=1-21-127127-11-1>
- Sun OS 127111-03 s/b 127127-11. Refer <http://sunsolve.sun.com/search/document.do?assetkey=1-21-127127-11-1>
- AIX 5.3. Added IY84780. Refer <http://www-01.ibm.com/support/docview.wss?uid=isg1IY84780>
- AIX 5.3. Added IY68989. Refer <http://www-01.ibm.com/support/docview.wss?uid=isg1IY68989>
- HugePages on 64-bit Linux. Fixed hard memlock 5243000 & soft memlock 5243000 values. Refer Note 361468.1
• **061009**
- HP-UX 11.23 (IA64) OS Patches updated with 9.2.0. Same OS Patches as HP-UX 11.22 (IA64)
• **071409**
- rpm's compat-gcc-34-3.4.6-4 & compat-gcc-34-c++-3.4.6-4 are not required for RHEL 5 & OEL 5
- MSGMAP,MAXSWAPCHUNKS, NCALLOUT, SEMMAP,VX_NCSIZE,NFILE, MSGSEG are obsolete on 11.31 (Itanium and PA-RISC) and no longer required to be set
• **080309**
- Fix from Note 301665.1 incorporated for 11GR1 on Linux X86_64
• **090909**
- 11GR2 requirements for Linux X86 32 BIT & Linux X86 64 BIT added
• **091809**
- Fix swap details for Linux X86 64 Bit. If RAM greater than 14Gb then 10Gb
- Symbolic links not required for HP Itanium on 11GR1 as per Bug 8789180
- 11GR1 with Linux X86 64 BIT has reference to Note 437123.1 & Note 301665.1
- Oracle Solaris 8 with 10.2 missing packages list included. Refer to Note 366100.1
- Patch PHKL_38397 or later required on HP OS 11.31. Patch PHKL_37809 or later required for HP OS 11.23. Refer to Note 580273.1. Changes incorporated for 11GR1 & 10GR2.
- ulimit changes for Sun SPARC & 11GR1. Refer to Note 250262.1
- SHMMAX RAM reference added for Linux X86 32 BIT & Linux X86 64 BIT for 11GR1 & 10GR2. Refer to Note 567506.1.
• **121709**
- 11GR2 Sun Sparc 64 BIT added
- 11GR2 Install Guide http://download.oracle.com/docs/cd/E11882_01/install.112/e10848/pre_install.htm#BABBBDGA
- 11GR2 Install Guide for SUN Sparc - Part Number E10848-03
- Linux X86-64 BIT. Added - kernel.shmall - Reference Note 301830.1, kernel.shmmax, kernel.shmmni, kernel.sem
- For 11GR2 & 11GR1 FILE-MAX value is 6815744. This is as per Bug 9140073
- Fixed PHKL_38397 or later
- Columns had moved for HP & were showing differently in Intenet Explorer & Fire Fox. Now Fixed
• **021110**
- 11GR2 install details for AIX. Part Number E10854-01.
- 11GR2 AIX Install Guide http://download.oracle.com/docs/cd/E11882_01/install.112/e10854/pre_install.htm#CIHFICFD
- 11GR2 install details for HP. Part Number E10851-01.
- 11GR2 HP-UX Install Guide http://download.oracle.com/docs/cd/E11882_01/install.112/e10851/pre_install.htm#CIHEIFDE
- 11GR2 HP-UX Itanium Install Guide http://download.oracle.com/docs/cd/E11882_01/install.112/e10869/toc.htm
- 11GR2 install details for HP-UX Itanium.Part Number E10869-01
• **021910**
- 10GR1 with HP-UX 11.31 (Itanium & PA-RISC). Added obsolete parameters Nfile and Msgseg
- 9.2.0 with HP-UX 11.31 (Itanium & PA-RISC). Added obsolete parameters Nfile and Msgseg
- 11GR2 with AIX 6.1, kernel has been upgraded to 6100-02-05 from previous level 6100-02-01.
- 11GR2 with AIX 6.1. APR have been removed with the upgraded kernel 6100-02-05

- **022310**
- IBM JDK version for 11GR2
- **031810**
-AIX parameters export AIXTHREAD_SCOPE=S for 11GR2 as per Part Number E10839-04
- **072110**
-Swap requirements for 11GR2 for various platforms are in sync with Release Notes
-Swap requirements for 11GR1 for various platforms are in sync with Release Notes
-HP-UX OS Patches superseded for 10GR2. PHSS_37492 s/b PHSS_40537,PHKL_37653 s/b PHKL_41002
-HP-UX OS Patches superseded for 10GR2. PHSS_38134 s/b PHSS_40537, PHSS_39101 s/b PHSS_40541
-HP-UX OS Patches superseded for 10GR2. PHSS_34445 s/b PHSS_40547, PHSS_38140 s/b PHSS_40543
-HP-UX OS Patches superseded for 10GR2. PHSS_38134 s/b PHSS_40537, PHSS_36344 s/b PHSS_40539
-HP-UX OS Patches superseded for 10GR2. PHCO_37940 s/b PHCO_39699, PHSS_37492 s/b PHSS_40537.
-Oracle 11GR1 install on AIX Power 7 will fail without a Patch 9216848. Doc ID 1065579.1.
-Patch 6613550 has been superseded by 6718715 for AIX on 10GR2.
-net_core.wmem_max value on Linux changed to 1048576 for 11GR1.
-For 11GR2 & 11GR1 FILE-MAX value is 6815744. This is as per Bug 9140073.

- **072910**

Master Note For OPatch (Doc ID 293369.1)
Patch Set Update (PSU) with Opatch details
Master Note addition under Related Documents Section

- **082010**

Master Note list updated with Note 293369.1 & Note 851598.1

- **100610**

10GR2 and 11GR1 on Linux x86 and Linux x86-64 are also certified on SLES11
Changed Asianux 3.0 to Asianux Server 3
Added Asianux Server 3 SP2 to Linux x86 & Linux X86-64 BIT for 11GR2
Disk Space and tmp size for 11GR1 on AIX modified as per Installation Guide
Note 1130325.1-Support Status-Oracle Database on Linux Itanium added to Linux Itanium OS section
RAM size consistent to 4GB for 11GR2 on HP, AIX, SUN & LINUX X86 64 BIT. Based on BUG # 9491478

- **120310**
PA-RISC added for 10GR1 & 10GR2 for OS 11.11. Previous entry was just saying 11.11 (64bit). Now says 11.11 (PA-RISC) (64bit)
Broken Link for HP Kernel settings is fixed for 11GR2
Patch#5496862 as mandatory for Releases: 8.1.7 to 10.2 as stated in Note#390656.1 - IO Interoperability Issue between IBM ML05 and Oracle Databases.

- **122410**

Maximum SHMMAX values for Linux x86 and x86-64 has been updated with the revised position from NOTE 567506.1

- **121311**

11.2 on AIX: rsct.basic.rte and rsct.compat.clients.rte filesets are required for RAC configurations only
11.2 on zSeries Linux: added links to articles containing 11.2 requirements
Replaced Metalink references with My Oracle Support (MOS) references

- **012312**

Solaris: 11.2.0.3 certified on Solaris 11 (SPARC and Solaris x86-64)
Solaris: Updated link to 11g Install Guide
Solaris: Solaris 8 patch 108940-76 or higher (not patch 112771-30) required for 10.2
Solaris: As per 11g Install Guide, recommended command to check swap is "swap -l" not "swap -s"
AIX: 11.2 certified on AIX 7.1 (with some required patches/packages)
Linux x86_64: 10.2 certified on SLES11

- **012412**
10.2 certified on IBM Linux on Power RHEL5
- **012512**
AIX: Updated list of required APARs for 11.2 and link to 11.2 Install Guide
AIX: Clarified that 10.2.0.3 or higher is required on AIX 6.1
AIX: Clarified that 10.2.0.4 or higher with CRS requires AIX 5.3 TLS (5300-05) or higher - see [Note:739371.1](#)
Linux x86_64: Updated 11.2 swap requirements
Linux x86_64: Corrected WMEM_MAX setting for 10.2
Tru64: 10.2 kernel settings clarified

- **012612**

Updated 11.2 RAM requirements for all 64-bit platforms (based on latest 11.2 Installation Guides)
HP-UX: Removed references to non-existant SHMMIN kernel parameter
HP-UX: Fixed link to 11.2 Installation Guide
HP-UX: Added recommendation to set MAXFILES and MAXFILES_LIM to 65536 as per [Note:1061351.1](#)
HP-UX: Added 11.2 recommendation to apply PHCO_41479 to fix an ASM disk discovery issue (unpublished Bug:10107681)
AIX: Starting with AIX 6.1, AIXTHREAD_SCOPE=S does not need to be set - see section 5.5 (page 217) of the [IBM AIX Version 6.1 Differences Guide](#)

- **012712**

MAC OS X: Added OS requirements for 10.2
AIX: Updated the recommended 11.2 kernel parameters and system configuration parameters
Solaris: Fixed broken link to 11.2 Install Guide

- **022912**
Solaris: SUNWmfrun is a required package for 11.1 and 11.2 (normally installed by default)
Linux: Required RHEL5 kernel is 2.6.18-8 or higher for 10.2
HP-UX: Clarified that kernel parameter NFILE is replaced by MAXFILES_LIM in HP-UX 11.31 (PA-RISC and Itanium)
Solaris: Replaced references to Sun Solaris with Oracle Solaris
- **030812**
Linux x86_64: unixODBC-2.2.12 and unixODBC-devel-2.2.12 recommended for 11.2 (see [Note:762206.1](#))
Linux x86_64: 11.2 SHMMAX recommendation is RAM times 0.5 (or higher at customer's discretion - see [Note:567506.1](#))
- **081412**
Solaris: Updated 11.2 swap requirements based on [11.2 Solaris Install Guide](#).
Solaris: 11.2 requires SUNWhea but not SUNWmfrun
Solaris: Added reference to [Note 1190843.1](#) in 10.2 section
Linux x86: 10.2 and 11.1 certified on SLES11 x86
Linux x86-64: 11.1 certified on SLES11 x86-64, 11.2.0.3 certified on RHEL6/OEL6 x86-64
- **090612**
Linux: unixODBC header and library files distributed together from ftp://ftp.unixodbc.org/pub/unixODBC/
Solaris: SUNWxcu4 required for 11.2 RAC and 11.1 RAC
HP-UX: Removed statement that MAXFILES_LIM directly replaces NFILE in 11.31 as this is incorrect
HP-UX: 11.2.0.3 for HP-UX Itanium ships with JDK 1.5.0.23 which is incompatible with Itanium 2 model 9310 processors
AIX: gpfs.base 3.2.1.8 is only required for RAC systems that will use GPFS cluster filesystems

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[NOTE:314422.1](#) - Remote Diagnostic Agent (RDA) - Getting Started
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[NOTE:437123.1](#) - Requirements for Installing Oracle 11gR1 RDBMS on RHEL 4 on AMD64/EM64T
[NOTE:394360.1](#) - Requirements for Installing Oracle 10.1.0.x RDBMS on RHEL 3 x86 platform
[NOTE:366100.1](#) - Libmawt.so Libxm.So.4 No Such File Or Directory On Sun Solaris 8
[NOTE:361169.1](#) - Requirements for Installing Oracle 9iR2 64-bit on SuSE SLES 9 x86_64 (AMD64/EM64T)
[NOTE:339510.1](#) - Requirements for Installing Oracle 10gR2 RDBMS on RHEL 4 on AMD64/EM64T
[NOTE:1587357.1](#) - Oracle Database (RDBMS) on Unix AIX,HP-UX,Linux,Solaris and MS Windows Operating Systems Installation and Configuration Requirements Quick Reference (12.1/12.2/18c) OLS:1.1
[NOTE:308588.1](#) - Requirements for Installing Oracle 9iR2 64-bit on RedHat 3 on x86_64 (AMD/EM64T)
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[NOTE:365607.1](#) - Requirements for Installing Oracle 10gR2 RDBMS on SLES 9 on AMD/EM64T
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[NOTE:233659.1](#) - Async IO Hang
[NOTE:467166.1](#) - Oracle11g DBCA/DBUA Fail To Start With Error OUI-25031 or Java Exception "java.lang.UnsatisfiedLinkError: \$ORACLE_HOME/lib/libOsUtils.so: Can't load Sparc v9 64-bit .so on a Sparc 32-bit platform"
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[NOTE:272697.1](#) - Performance Degradation after upgrading OS to 5.1B PK3
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