

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)

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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 analy .

Keeping the OS kernel current helps stabilize the system. Production systems should never run an out dated OS kernel v . As a best practice, Oracle recommends the OS kernel v . 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, R lease 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-t -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 higher 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
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 6.1L, AIX 5L version 5.3, TL 05, Service Pack 06 (F Number B32076-03), AIX 6L version 6.1, TL 00, Service Pack 04 or later (Part Number B32076-03)
AIX Disk Space	6.40G Database 1.55G Software	6.45G Database 1.6G Software
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
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
AIX tmp	1GB	240Mb
AIX JDK & JRE	IBM JDK 1.6.0.00 (64 BIT)	IBM JDK 1.5.0.06 (IA64 - mixed mode) is installed

<p>AIX Patches/ Packages</p> <p>v</p> <p>later than the listed version, the APAR is built into the later OS version and need not be applied.</p> <p>IMPORTANT: Review Note 390656.1 & apply AIX & Oracle Patch</p>	<p>AIX 5.3 required packages:</p> <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> .compat.clients.rte (For RAC configurations only) xIC.aix50.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>AIX 6.1 required packages:</p> <ul style="list-style-type: none"> bos.adt.base bos.adt.lib bos.adt.libm bos.perf.libperfstat 6.1.2.1 or later bos.perf.perfstat bos.perf.proctools rsct.basic.rte (For RAC configurations only) <ul style="list-style-type: none"> .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>AIX 7.1 required packages:</p> <ul style="list-style-type: none"> 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>Authorized Problem Analy IX 5.3:</p> <ul style="list-style-type: none"> IZ42940 IZ49516 IZ52331 <p>See Note:1379908.1 for other AIX 5.3 patches that may be required</p> <p>APARs for AIX 6.1:</p> <ul style="list-style-type: none"> IZ41855 IZ51456 IZ52319 IZ97457 IZ89165 <p>See Note:1264074.1 and Note:1379908.1 for other AIX 6.1</p>	<p>6.1 / 5.3 ML5 required packages:</p> <ul style="list-style-type: none"> bos.adt.base bos.adt.lib bos.adt.libm bos.perf.libperfstat bos.perf.perfstat bos.perf.proctools 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) rsct.basic.rte (For RAC configurations only) rsct.compat.clients.rte (For RAC configurations only) <p>5.3 ML5 required patches:</p> <ul style="list-style-type: none"> IY IY 7 IY94343 IZ01060 or efix for IZ01060 IZ03260 or efix for IZ03260 (IZ03260 for ML6, IZ03475 for ML7) to address ORA-27061 IY84780 IY68989 <p>POWER7 Based Hardware Patch 9216848 (Note 1065579.1)</p>
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	<p>patches that may be required</p> <p>APARs for AIX 7.1:</p> <p>IZ87216 IZ87564 IZ89165 IZ97035</p> <p>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>	
AIX Kernel Settings	<p>set AIXTHREAD_SCOPE=S in the environment:</p> <pre>export AIXTHREAD_SCOPE=S</pre> <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 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</pre>	<p>set AIXTHREAD_SCOPE=S in the environment:</p> <pre>export AIXTHREAD_SCOPE=S</pre> <p>NOTE: This is only necessary on AIX5L. A change was introduced in AIX 6.1 which means that the variable dc not need to be set. See section 5.5 (page 217) of the AIX Version 6.1 Differences Guide</p>

	<p>udp_ephemeral_low = 32768 udp_ephemeral_high = 65535</p> <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</p> <table border="0"> <tr> <td>maxuproc</td> <td>16384</td> </tr> <tr> <td>ncargs</td> <td>128</td> </tr> </table> <p>Also see Note:1307804.1</p>	maxuproc	16384	ncargs	128	
maxuproc	16384					
ncargs	128					
Oracle Version	11.2	11.1				
HP OS (32- and 64-bit stands for Oracle not OS)	HP-UX 11i V3 patch Bundle Sep/2008 (B.11.31.0809.326a) or higher (Part Number E10851-01)	11.23 and 11.31 (It ,P -RISC)				
HP Disk Space	1.7G database 6.9 G Software	1.7G Database 6.9G Software				
HP RAM	<p>Database: minimum 1GB, recommended 2GB</p> <p>Grid Infrastructure for standalone server: minimum 1.5GB (plus another 1GB if installing Database too), recommended 4GB</p>	1GB				

<u>HP swap</u>	Between 1 GB and 2 GB then 1.5 times RAM. Between 2 GB and 16 GB then equal to RAM. More than 16 GB then 16 GB RAM.	If RAM = 1GB to 2GB then 1.5 times RAM elseif RAM > 2GB and < 8GB then match RAM else RAM > 8GB then .75 times RAM
HP tmp	1GB	400Mb
HP jdk & JRE	HPUX JDK 6.0.05, HPUX JDK 5.0.15 NOTE: The JDK version included with 11.2.0.3 on HP-UX Itanium (1.5.0.23) is not compatible with Itanium I 9310 processors. Please refer to the statement at the end of both Note:404843.1 and Note:552358.1 . To workaround the issue, download JDK 1.5.0.24 or higher and use the "./runInstaller -jreLoc ..." syntax to start the 11.2.0.3 installation.	Java 1.5.0.0.6 is installed
<u>HP Patches/ Packages</u> "s/b" indicates superseded by See Note 43507.1 for other applicable patches.	For HP-UX 11i V3 (11.31): PHCO_40381 11.31 Disk Owner Patch PHCO_41479 11.31 (fixes an 11.2.0.2 ASM disk discovery issue) PHKL_38038 VM patch - hot patching/Core file creation directory PHKL_38938 11.31 SCSI cumulative I/O patch PHKL_39351 Scheduler patch : post wait hang PHSS_36354 11.31 assembler patch PHSS_37042 11.31 hppac (packed decimal) PHSS_37959 Libcl patch for alternate stack issue fix (QXCR1000818011) PHSS_39094 11.31 linker + fdp cumulative patch PHSS_39100 11.31 Math Library Cumulative Patch PHSS_39102 11.31 Int Library PHSS_38141 11.31 aC++ Runtime Pro*C/C++, Oracle Call Int Ie C++ Pro*C/C++, Oracle Call Int , Oracle C++ Call Int , Oracle XML Developer's Kit (XDK):- Patch for HP-UX 11i V3 (11.31) on HP-UX It - PHSS_39824 - 11.31 HP C/aC++ Compiler (A.06.23) patch PHKL_40941 - Scheduler patch : post wait hang	For HP-UX PA-RISC and Itanium 11.23 (Mar '07 Patch bundle for HP-UX 11iV2- B.11.23.0703): PHSS_35979 s/b PHSS_37201 s/b PHSS_37492 s/b PHSS_38134 PHSS_35978 s/b PHSS_36343 s/b PHSS_38140 PHCO_35524 s/b PHCO_36744 PHKL_35478 s/b PHKL_36319 PHCO_36673 s/b PHCO_37228 PHKL_35029 s/b PHKL_37121 PHKL_37809 or later Note 580273.1 For HP-UX PA-RISC and Itanium 11.31: PHKL_35900 PHKL_36248 PHKL_36249 PHKL_35936 s/b PHKL_36242 s/b PHKL_37185 s/b PHKL_38038 PHKL_38397 or later. Note 580273.1 Use the -ignoreSysPrereqs option with runInstaller to ignore the system pre-requisite test Refer to the following Web site for information about additional java patches: http://www.hp.com/products1/unix/java/patches/index.html The default 64bit OS (PA-RISC and Itanium) From Bug 8789180) installation does not create a few required X library symbolic links. The following symbolic links need to be created: (NOTE: This task is required only if the Motif 2.1 Development Environment Package (X11MotifDevKit.MOTIF21-PRG) is not installed). cd /usr/lib ln -s /usr/lib/libX11.3 libX11.sl ln -s /usr/lib/libXIE.2 libXIE.sl ln -s /usr/lib/libXext.3 libXext.sl

```
In -s /usr/lib/libXhp11.3 libXhp11.sl  
In -s /usr/lib/libXi.3 libXi.sl  
In -s /usr/lib/libXm.4 libXm.sl  
In -s /usr/lib/libXp.2 libXp.sl  
In -s /usr/lib/libXt.3 libXt.sl  
In -s /usr/lib/libXtst.2 libXtst.sl
```


<u>HP Kernel Settings</u>	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.	<p>Important: For HP 9000/700 workstations Only, see Note:467166.1:</p> <p>set the following before starting the OUI,DBCA, or DBL</p> <pre>\$ export JAVA64FLAG="-d64"</pre> <p>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</p> <p>* MSGMAP,MAXSWAPCHUNKS, NCALLOUT, SEMMAP,VX_NCSIZE,NFILE, MSGSEG are obsolete on : (Itanium and PA-RISC) and no longer required to be set</p>
Oracle Version	11.2	11.1
<u>Oracle Solaris</u> (32-bit and 64-bit stands for Oracle DB, not OS)	<p>Solaris(64bit) 10 (update 6 or higher), Solaris 11</p> <p>NOTE: On Solaris 11, only 11.2.0.3 is certified (not 11.2.0.1 or 11.2.0.2)</p> <p>Set the following variable before installing 11.2.0.3 on Solaris 11:</p>	2.9 Update 7 (09/04), 2.10

	export AWT_TOOLKIT=XToolkit	
Solaris Disk Space	1.5 to 2G Database 4.7G Software	1.5 to 2G Database 4.7G Software
<u>Solaris RAM</u>	Database: minimum 1GB, recommended 2GB Grid Infrastructure for standalone server: minimum 1.5GB (plus another 1GB if installing Database too), recommended 4GB	1GB
<u>Solaris swap</u>	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 number of 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
Solaris tmp	1GB	275Mb
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
<u>Solaris Patches/ Packages</u>	Required packages Solaris 10: SUNWarc SUNWbtool SUNWhea SUNWlibC SUNWlibm SUNWlibms SUNWmfrun SUNWsprot SUNWtoo SUNWi1of SUNWi1cs (ISO8859-1) SUNWi1cs (ISO8859-15) SUNWxwfnt SUNWcsl Although it is not listed in the Install	Important: For non-sun4u or sun4v workstations Only .1: set the following before starting the OUI,DBCA, or DBL \$ export JAVA64FLAG="-d64" Required Packages: SUNWarc SUNWbtool SUNWhea SUNWi15cs SUNWi1cs SUNWi1of SUNWlibC SUNWlibm SUNWlibms SUNWmfrun SUNWsprot

Guide, the RAC root.sh script requires /usr/xpg4/bin/tr and so requires the **SUNWxcu4** package.
@ See [Bug:14046807](#) for confirmation.

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

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](#)

Information on Solaris 11 Installation types - refer to [Note 1557986.1](#)

SUNWsprox (Not applicable to Solaris 10),
SUNWtoo
SUNWxwfnt
SUNWuiu8 [Note 290034.1](#)
SUNWulcf [Note 290034.1](#)

Although it is not listed in the Install Guide, the RAC ro script requires /usr/xpg4/bin/tr and so requires the **SUNWxcu4** package.

@ See [Bug:14046807](#) for confirmation.

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](#).

Solaris 10 Reqd Patches:

127111-02 s/b 127127-11

137111-04 s/b 137137-09 (Part Number B32314-02)

To support Pro*C/C++,Pro*FORTRAN,Oracle Call Int le C++ Call Int le XML Develop 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(NFILES) to 1048576. Refer to [Note 250262.1](#)

ulimit(VMEMORY) to a minimum of 4194304. Refer to [Note 250262.1](#)

Solaris K_I Settings	<p>R 11g Solaris Install Guide. Part Number E24346-02 for steps to do this.</p> <p>Verifying UDP and TCP Kernel Parameters</p> <p>Note : In Solaris 11 to set TCP / UDP Kernel Parameter use ipadm command, ndd is deprecated in Solaris 11</p> <p>Refer to the Comparison between ipadm and other networking commands</p>	<p>SEMMNI 100 SEMMNS 1024(Obsolete) SEMMSL 256 SEMVMX 32767(Obsolete) SHMMAX 4294967295 SHMMNI 100 (Obsolete) NOEXEC_USER_STACK 1</p> <p>Note: For Solaris 10 Oracle recommends still setting all these values in the /etc/system file, as well as, the Resource Control Facility.</p> <p>Refer to the 11g Solaris Install Guide for steps to do this</p> <p>Here are the new names of the kernel parameters for Solaris 10 (Solaris 9 equivalents are in parentheses):</p> <ul style="list-style-type: none"> • project.max-sem-ids 100 (semnni) • process.max-sem-nsems 256 (semmsl) • project.max-shm-memory 4294967295 (shmmax) • project.max-shm-ids 100 (shmmni)
Oracle Version	11.2	11.1
Tru64 OS do "/usr/sbin/sizer -v" to see specific version of Tru64, "uname -a" will	NA	Not Available

not show it.		
Tru64 Disk Space	NA	Not Available
<u>Tru64 RAM</u>	NA	Not Available
<u>Tru64 swap</u>	NA	Not Available
Tru64 tmp	NA	Not Available
Tru64 JDK & JRE	NA	Not Available
<u>Tru64 Patches/ Packages</u>	NA	Not Available

Tru64 Kernel Settings	NA	Not Available
Oracle Version	11.2	11.1
Linux x86 OS (See Note 225710.1 for supported kernels) and Note 265262.1	<ul style="list-style-type: none"> o RHEL4,OEL4 - Update 7 or greater which is Kernel 2.6.9-78 or newer o RHEL5, OEL5 - 5.2 or greater which is Kernel 2.6.18-92 or newer o Red Hat Enterprise Linux 6 - Kernel 	<ul style="list-style-type: none"> o RHEL4, OEL4, Asianux 2.0 2.6.9 o RHEL5, OEL5, Asianux Server 3 2.6.18 o SuSE SLES10

for "Things to know about Linux"	<p>2.6.32-71 or later</p> <ul style="list-style-type: none"> o Red Hat Enterprise Linux 7 - Kernel 3.10.0-54.0.1.el7.x _64 or later o Oracle Linux 7 with Red Hat Compatible Kernel - Kernel 3.10.0-54.0.1.el7.x _64 or later o Oracle Linux 7 - Kernel 3.8.13-33.el7uek.x86_64 or later o SLES10 - Kernel 2.6.16.21 or higher o SLES 11 - Kernel 2.6.27.19-5 or greater o Asianux Server 3 SP2 <p>o NOTE: On RHEL6/OEL6, 11.2.0.3 or later is certified (not 11.2.0.1 or 11.2.0.2)</p>	2.6.16.21 o SuSE SLES11 - Kernel 2.6.27.19-5 or greater
Linux x86 Disk Space	3.8G Database	2G Database 3.5G Install
<u>Linux x86 RAM</u>	1GB	1GB
<u>Linux x86 swap</u>	If RAM=1 GB to 2 GB then 1.5 times RAM If RAM=2 GB to 16 GB then equal to RAM If greater than 16 GB then 16 GB	If RAM between 1 GB and 2 GB then 1.5 times RAM elseif RAM between 2 GB and 16 GB then match RAM else RAM > 16 GB then 16 GB
Linux x86 tmp	1024Mb	400Mb
Linux x86 JDK & JRE	JDK (version TBS) is installed	JDK (version TBS) is installed
<u>Linux x86 Patches/ Packages</u>	<p>RHEL4, OEL4: Refer to Note 880211.1</p> <ul style="list-style-type: none"> • binutils-2.15.92.0.2-25 • compat-libstdc++-33-3.2.3-47.3 • elfutils-libelf-0.97.1-5 • glibc-2.3.4-2.41 • glibc-common-2.3.4-2.41 • libaio-0.3.105-2 • libgcc-3.4.6-10 • libstdc++-3.4.6-10 • make-3.80-7.EL4 • pdksh-5.2.14-30.6 • unixODBC-2.2.11-1.RHEL4.1 • The remaining Install Guide requirements will have to be installed: <ul style="list-style-type: none"> • elfutils-libelf-devel-0.97.1-5.i386.rpm • glibc-headers-2.3.4-2.41.i386.rpm 	<p>Asianux 2.0,OEL4,RHEL4: refer to Note 430653.1</p> <ul style="list-style-type: none"> • default Update 3 RPMs install or higher, see Note 376183.1 • binutils-2.15.92.0.2-18 * • compat-libstdc++-33.2.3-47.3 * • elfutils-libelf-0.97-5 * • elfutils-libelf-devel-0.97-5 • glibc-2.3.4-2.19 * • glibc-common-2.3.4-2.19 * • glibc-devel-2.3.4-2.19 • glibc-headers-2.3.4-2.19 (glibc-devel required RPM) • glibc-kernheaders-2.4-9.1.98 (glibc-devel required R • gcc-3.4.5-2 • gcc-c++-3.4.5-2 • libaio-0.3.105-2 * • libaio-devel-0.3.105-2 • libgcc-3.4.5 * • libstdc++-3.4.5-2 * • libstdc++-devel-3.4.5-2

- glibc-kernheaders-2.4-9.1.103.EL.i386.rpm will be required as a prerequisite
- glibc-devel-2.3.4-2.41.i386.rpm
- gcc-3.4.6-10.i386.rpm
- libstdc++-devel-3.4.6-10.i386.rpm
- gcc-c++-3.4.6-10.i386.rpm
- libaio-devel-0.3.105-2.i386.rpm
- sysstat-5.0.5-19.el4.i386.rpm
- unixODBC-devel-2.2.11-1.RHEL4.1.i386.rpm

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.

RHEL5, OEL5:
Refer to [Note 880936.1](#)

RHEL6, OEL6:
[Refer to Oracle documentation](#)

SLES10:
Refer to [Note 763386.1](#)

SLES11:
Refer to [Note 881025.1](#)

- make-3.80-5 *
- sysstat-5.0.5 *
- unixODBC-2.2.11-1.RHEL4
- unixODBC-devel-2.2.11-1.RHEL4
- * default OS installed

NOTE: If you download unixODBC from <ftp://ftp.unixodbc.org/pub/unixODBC/> then the header library files are distributed together in one gzipped tar

Asianux Server 3,OEL5,RHEL5:
refer to [Note 438765.1](#)

- default RPM install, see [Note 376183.1](#)
- binutils-2.17.50.0.6-2.el5 *
- compat-libstdc++-33-3.2.3-61
- elfutils-libelf-0.125-3.el5 *
- elfutils-libelf-devel-0.125-3.el5
- elfutils-libelf-devel-static-0.125-3.el5
(required by elfutils-libelf-devel)
- glibc-2.5-12 *
- glibc-common-2.5-12 *
- glibc-devel-2.5-12
- glibc-headers-2.5-12
(required by glibc-devel)
- gcc-4.1.1-52.el5
- gcc-c++-4.1.1-52.el5
- libaio-0.3.106
- libaio-devel-0.3.106
- libgcc-4.1.1-52
- libgomp-4.1.1-52.el5
(required by gcc)
- libstdc++-4.1.1-52.el5 *
- libstdc++-devel-4.1.1-52.el5
- make-3.81-1.1 *
- sysstat-7.0.0-3.el5
- unixODBC-2.2.11-7.1
- unixODBC-devel-2.2.11-7.1
- * default OS installed

NOTE: If you download unixODBC from <ftp://ftp.unixodbc.org/pub/unixODBC/> then the header library files are distributed together in one gzipped tar

SLES10:
refer to [Note 452818.1](#)

- default RPM install, see [Note 386391.1](#)
- binutils-2.16.91.0.5-23.4 *
- compat-libstdc++-5.0.7-22.2 *
- glibc-2.4-31.2 *
- glibc-devel-2.4-31.2
- gcc-4.1.0-28.4
- gd-2.0.32-23.2
(required by sysstat)
- gnuplot-4.0.0-20.2
(required 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
- * default OS installed

NOTE: If you download unixODBC from <ftp://ftp.unixodbc.org/pub/unixODBC/> then the header library files are distributed together in one gzipped tar

SLES11:

refer to [Note 849583.1](#)

Linux x86
K
I
Settings

kernel.shmmni = 4096
 kernel.sem = 250 32000 100 128
 fs.file-max = 6815744 512*x
~~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

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_L _ _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~~

Oracle Version	11.2	11.1
Linux x86_64 EM64T AMD64 OS (See Note 225710.1 for supported kernels) and Note 265262.1 for "Things to know about Linux"	<ul style="list-style-type: none"> o RHEL4,OEL4 - update 7 or greater o RHEL5,OEL5 - 5.2 or greater o RHEL ,OEL - 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 <p>NOTE: On RHEL6/OEL6, 11.2.0.3 or later is certified (not 11.2.0.1 or 11.2.0.2)</p> <p>Refer Note 1304727.1 for certification information</p> <p>Refer 11.2 DB Installation Guide for Linux for Kernel requirement</p>	<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 2.6.18 • SUSE Linux Enterprise Server 10: 2.6.16.21 • SuSE Linux Enterprise Server 11: 2.6.27.19-5 or greater
Linux x86_64 EM64T AMD64 Disk Space	3.8Gb Database	1.68G Database 3.8G to 4.4G Software
Linux x86_64 EM64T AMD64 RAM	<p>Database: minimum 1GB, recommended 2GB</p> <p>Grid Infrastructure for standalone server: minimum 1.5GB (plus another 1GB if installing Database too), recommended 4GB</p>	1GB
Linux x86_64 EM64T AMD64 swap	<p>11.2 DB Installation Guide for Linux says:</p> <p>If RAM between 1 GB and 2 GB then 1.5 times the size fo RAM.</p> <p>If RAM between 2 GB to 16 GB then equal t</p> <p>If RAM greater than 16 GB then 16 GB.</p> <p>11.2 Grid Infrastructure (GI) Installation Guide for Linux says:</p> <p>If RAM between 2 GB and 8 GB then 2 times the size fo RAM.</p> <p>If RAM between 8 GB to 32 GB then 1.5 times the size of RAM.</p> <p>If RAM greater than 32 GB then 32 GB.</p>	<p>If RAM 1 GB and 2 GB then 1.5 times the size fo RAM.</p> <p>If RAM 2 GB to 16 GB then equal t</p> <p>If RAM greater than 16 GB then 16 GB</p> <p>Automatic Memory Management Starting with Oracle Database 11g, the Automatic Mem Management feature requires more shared memory (/dev/shm) and file descriptors. The shared memory size should 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: <code># df -k /dev/shm/</code></p> <p>Note: MEMORY_MAX_TARGET and MEMORY_TARGET cannot be used when LOCK_SGA is enabled or with huge pages on Linux</p>

Linux x86_64 EM64T AMD64 tmp	1024Mb	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 Int However, these are not mandatory for the installation	You can use Sun JDK 1.5.0-06 with the JNDI extension versions with the Oracle Java Database Connectivity ar Oracle Call Int However, these are not mandatory for the installation
<u>Linux x86_64 EM64T AMD64 Patches/ Packages</u>	<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</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-2.15.92.0.2 • compat-libstdc++-33-3.2.3 • compat-libstdc++-33-3.2.3 (32 bit) • elfutils-libelf-0.97 • elfutils-libelf-devel-0.97 • gcc-3.4.5 • gcc-c++-3.4.5 • glibc-2.3.4-2.19 • glibc-2.3.4-2.19 (32 bit) • glibc-common-2.3.4 • glibc-devel-2.3.4 • glibc-devel-2.3.4 (32-bit) • libaio-0.3.105 • libaio-0.3.105 (32 bit) • libaio-devel-0.3.105 • libgcc-3.4.5 • libgcc-3.4.5 (32-bit) • libstdc++-3.4.5 • libstdc++-3.4.5 (32 bit) • libstdc++-devel 3.4.5 • make-3.80 • sysstat-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-2.17.50.0.6 • compat-libstdc++-33-3.2.3 • compat-libstdc++-33-3.2.3 (32 bit) • elfutils-libelf-0.125 • elfutils-libelf-devel-0.125 • gcc-4.1.1 • gcc-c++-4.1.1 • glibc-2.5-12 • glibc-2.5-12 (32 bit) • glibc-common-2.5 • glibc-devel-2.5 • glibc-devel-2.5-12 (32 bit) • libaio-0.3.106 • libaio-0.3.106 (32 bit)

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](#)

NOTE: If you load unixODBC from <ftp://ftp.unixodbc.org/pub/unixODBC/> then the header and library files are distributed together in one gzipped tar file.

RHEL4,OEL4:

Refer to [Note 880942.1](#)

SLES10:-

Refer to [Note 884435.1](#)

SLES11 :-

Refer to [Note 881044.1](#)

- libaio-devel-0.3.106
- libgcc-4.1.1
- libgcc-4.1.1 (32 bit)
- libstdc++-4.1.1
- libstdc++-4.1.1 (32 bit)
- libstdc++-devel 4.1.1
- make-3.81
- sysstat-7.0.0

SuSE SLES 10

(see [Note 457143.1](#)):

- default-RPMs (see [NOTE 386391.1](#))
- binutils-2.16.91.0.5
- compat-libstdc++-5.0.7-22.2
- gcc-4.1.0
- gcc-c++-4.1.0
- glibc-2.4-31.2
- glibc-32bit-2.4-31.2 (32 bit)
- glibc-devel-2.4
- glibc-devel-32bit-2.4 (32 bit)
- libaio-0.3.104
- libaio-32bit-0.3.104 (32 bit)
- libaio-devel-0.3.104
- libelf-0.8.5
- libgcc-4.1.0
- libstdc++-4.1.0
- libstdc++-devel-4.1.0
- make-3.80
- sysstat-6.0.2

Note: If you did not perform a default Linux installation intend to use LDAP, and you want to use the scripts odisrvreg, oidca, or schemasync, then install the Korn : RPM for your Linux distribution.

SuSE SLES 11

(see [Note 1081555.1](#))

<u>Linux x86_64</u> <u>EM64T</u> <u>AMD64</u> <u>K_I</u> <u>Settings</u>	kernel.shmmni = 4096 kernel.sem = 250 32000 100 128 fs.file-max = 6815744 512*x 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 :	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_L_L_PORT_RANGE 9000 65500 RMEM_DEFAULT 262144 RMEM_MAX 4194304 WMEM_DEFAULT 262144 WMEM_MAX 262144 1048576 NET.IPV4.TCP_RMEM (RMEM_DEFAULT) (RMEM_DEF)

	<p>301830.1 for more information.</p> <p>kernel.shmmax = RAM times 0.5 (or higher at customer's discretion - see Note:567506.1)</p> <p>kernel.shmmni = 4096</p> <p>kernel.sem = 250 32000 100 128</p> <p>aio-max-nr=1048576</p>	<p>(RMEM_MAX) NET.IPV4.TCP_WMEM (WMEM_DEFAULT) (WMEM_DEFAULT) (WMEM_MAX)</p> <p>To increase the shell limits:</p> <ol style="list-style-type: none"> 1. Add the following lines in the /etc/security/limits.con 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 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 3. Depending on the oracle user's default shell, make the following changes to the default shell startup file: For the Bourne, Bash, or Korn shell, add the following in the /etc/profile file (or the /etc/profile.local file on SUSE Linux Enterprise Server systems): <pre>if [\$USER = "oracle"]; then if [\$SHELL = "/bin/ksh"]; then ulimit -u 16384 ulimit -n 65536 else ulimit -u 16384 -n 65536 fi fi</pre> For the C shell, add the following lines in the /etc/csh.login file (or the /etc/csh.login.local file on SUSE Linux Enterprise Server systems): if (\$USER == "oracle") then limit maxproc 16384 limit descriptors 65536 endif
Oracle Version	11.2	11.1
<p>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"</p>	NA	Not Available
Linux Itanium Disk	NA	Not Available

Space		
<u>Linux Itanium RAM</u>	NA	Not Available
<u>Linux Itanium swap</u>	NA	Not Available
<u>Linux It</u>		able
<u>Linux It E</u>	NA	Not Available
<u>Linux Itanium Patches/ Packages</u>	NA	Not Available

<u>Linux</u> <u>Itanium</u> <u>K</u> <u>I</u> <u>Settings</u>	NA	Not Available

Oracle Version	11.2	11.1
<u>Linux on 64-bit zSeries</u>	<p><u>Note:1306889.1</u> Requirements for Installing Oracle 11gR2 on RHEL 5</p> <p><u>Note:1290644.1</u> Requirements for Installing Oracle 11gR2 64-bit on SLES 11</p> <p><u>Note:1308859.1</u> Requirements for Installing Oracle 11gR2 on SLES 10</p>	Not available
Oracle Version	11.2	11.1
<u>Linux on Power PC OS</u> (See <u>Note 225710.1</u> for supported kernels) and <u>Note 265262.1</u> for "Things to know about Linux"	NA	Not Available
<u>Linux on Power PC Disk Space</u>	NA	Not Available
<u>Linux on Power PC RAM</u>	NA	Not Available
<u>Linux on Power PC swap</u>	NA	Not Available
<u>Linux on Power PC tmp</u>	NA	Not Available

Linux on Power PC JDK & JRE	NA	Not Available
<u>Linux on Power PC Patches/ Packages</u>	NA	Not Available

<u>Linux on Power PC K_I Settings</u>	NA	Not Available

Oracle Version	11.2	11.1
<u>Mac OS X</u>	NA	Not Available
Mac OS X Disk Space	NA	Not Available
<u>Mac OS X RAM</u>	NA	Not Available
<u>Mac OS X swap</u>	NA	Not Available
Mac OS X tmp	NA	Not Available
Mac OS X JDK	NA	Not Available
<u>Mac OS X Patches/ Packages</u>	NA	Not Available
<u>Mac OS X K_I Settings</u>	NA	Not Available

Oracle Version	11.2	11.1
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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/lsattr -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_v
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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	lslpp -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 *\n/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
	To see if a particular RPM is installed (without the	

	<p>architectur): \$ rpm -qa grep "package name"</p> <p>To see if a particular RPM is installed (with the architectur): \$ rpm -qa --qf "%{NAME}-%{VERSION}-%{RELEASE}_%{ARCH}\n" grep "package name"</p>	
Linux	<p>To see what RPM provided a particular object/library: \$ rpm -q --whatprovides --qf "%{NAME}-%{VERSION}-%{RELEASE}_%{ARCH}\n" "full path/library name"</p> <p>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++.so.5 /usr/lib/libstdc++.so.5.0.7</p>	
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	lslpp -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
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: KBRC00003627 is 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 It 10g on SuSE SLES9 required RPMs
- **122604**
- Linux section - Added LD_ASSUME_KERNEL=2.4.19 t 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 - R .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 that if 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 It EL3 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 NCALL T 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 neeeded 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 Iv

II of 9.2 on SuSE SLES 9

- **120805**

- Linux section - Added RHEL4 t 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 v lid for Solaris 9 and 10

- **012706**

- Pre-Installation Scripts - Added 10gR2 Linux AMD64/EM64 script

- Linux section - Changed 10gR2 Linux x86_64 for RHEL3 t -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 t 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 It
- 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 v 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 It .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 than 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 - R -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 It EL4 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 It 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 than 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 t L4 (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 L/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

- Linux section - Added SLES10 and Asinu 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 (It)
- 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 - P TCH 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 It L_33807 superseded by PHKL_38364
- HP-UX 11.23 It L_36667 superseded by PHKL_37653
- HP-UX 11.23 It _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=shmmmax>
- **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 (x -64) See Note 460424.1
- **032409**
- net.ipv4.tcp_rmem & net.ipv4.t _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:-
- xlC.aix50.rte:8.0.0.7 or later (AIX 5.3)
- xlC.rte:8.0.0.7 or later (AIX 5.3)
- xlC.aix61.rte:9.0.0.1 or later (AIX 6.1)
- xlC.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
- t _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. R <http://sunsolv.sun.com/search/document.do?assetkey=1-21-137137-09-1>
- Sun OS 127111-02 s/b 127127-11. Refer <http://sunsolv.sun.com/search/document.do?assetkey=1-21-127127-11-1>
- Sun OS 127111-03 s/b 127127-11. Refer <http://sunsolv.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 (It-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 It 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#BABBDG
- 11GR2 Install Guide for SUN Sparc - Part Number E10848-03
- Linux X86-64 BIT. Added - kernel.shmall - R 1830.1, kernel.shmmmax, 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 Internet 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 It 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 (It-RISC). Added obsolete parameters Nfile and Msgseg

- 9.2.0 with HP-UX 11.31 (It-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 It 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 RHELS5

- **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 TL5 (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-existent 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 x

Linux x86-64: 11.1 certified on SLES11 x86-64, 11.2.0.3 certified on RHEL6/OEL -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 It processors | 9310

AIX: gpfs.base 3.2.1.8 is only required for RAC systems that will use GPFS cluster filesystems

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