

QUICK REFERENCE (Color Coding)

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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, Sun 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.

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)

A script to verify that the system has been configured correctly according to the Installation Guide can be found on Metalink <Note: 189256.1> "UNIX: Script to Verify Installation Requirements for Oracle 9.x version of RDBMS"

Corrections and updates are REQUESTED and EXPECTED (in the form of REMARKS or Metalink "Feedback" button) to ensure the accuracy and up-to-date status of this bulletin.

Oracle Version	10g	9.2.0	9.0.1	8.1.7	8.1.6	8.1.5	8.0.6	8.0.5
<a href="#">AIX OS</a> (32- and 64-bit stands for Oracle not OS)	5.2 ML1 or higher	4.3.3 (64bit only), 5.1, 5.2 (5L) (64bit only)	4.3.3 (64bit)	4.3.2, 4.3.3 (32/64bit), 5.1, 5.2 (5L) [patch 2896876 is required if kernel is running in 64bit mode]] (32-bit)  4.3.2, 4.3.3 (64bit)	4.3.2, 4.3.3 (32/64bit)	4.2.1 , 4.3.0, 4.3.1, 4.3.2, 4.3.3 (32bit) 4.3.2, 4.3.3 (64bit)	4.2.1, 4.3.2, 4.3.3 (32bit) 4.3.2, 4.3.3 (64bit)	4.1.4, 4.1.5, 4.2.1, 4.3.2, 4.3.3 (32bit) 4.3.2, 4.3.3 (64bit)
<b>AIX Disk Space</b>	1.2G Database 3G Software 1G Companion 150M-1.9G Client	4.5G	4.7G	1.58G	800Mb	800Mb	700Mb	700Mb
<a href="#">AIX RAM</a>	512Mb 256Mb(Client/Compan)	512Mb	512Mb	256Mb	128Mb	128Mb	64Mb or 128Mb / ConText	32Mb or 128Mb / ConText
<a href="#">AIX swap</a>	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM	400Mb	400Mb	400Mb	256Mb	2*RAM	2*RAM
<b>AIX tmp</b>	400Mb	400Mb	400Mb	400Mb	400Mb	50Mb	20Mb	20Mb
<b>AIX JDK &amp; JRE</b>	IBM JDK 1.4.1.2 (32bit) is installed	JDK 1.3.1-build 20020316 & 1.1.8-Build 20020313	JDK 1.2.2.04 or JDK 1.2.2 & 1.1.8	JDK 1.1.8 / 1.2.2 & 1.1.8.3	1.1.8.3	?	n/a	n/a

<p><a href="#">AIX Patches/ Packages</a></p> <p>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</p>	<p>5L Required Patches: IY43980 IY44810 IY45462 IY45707 IY46214 IY46605 IY48525 IY51801</p> <p>bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat bos.perf.proctools X11.motif.lib (Spatial only)</p>	<p>4.3.3 Required Patches: 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)</p> <p>Maint Level 9 or higher (4.3.3.0.09)</p> <p>bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat</p> <p>5.1(5L) Required Patches: IY26778(5100-01) IY28766(5100-01) IY28949(5100-01) IY29965(5100-02) IY30150(5100-02)</p> <p>Maint Level 1 and IY22854</p> <p>See</p> <p>bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat bos.perf.libperfstat</p>	<p>Maint Level 7 or higher (4.3.3.0.07)</p> <p>bos.adt.base bos.adt.lib bos.adt.libm bos.perf.perfstat X11.apps.rte X11.apps.xterm X11.base.rte X11.motif.lib X11.motif.mwm</p>	<p>IY01050 (4.3.3.0.03) IY07276 (4.3.3.0.02) IY05995 (4.3.3.01) IY02407 (4.3.2.02) IX89087 (4.3.2.0.02) IY03412 (4.3.2.0.02) IX85104 (4.3.2.0.01) IX87313 (4.3.2.0.01) IX87382 (4.3.2.0.01) IX89552 (4.3.2.0.01) IX81863 (4.3.1) IX72696 (4.3.0)</p>	<p>IY01050 (4.3.3.0.03) IY07276 (4.3.3.0.02) IY05995 (4.3.3.01) IY07018 (4.3.3) IY02407 (4.3.2.02) IX89087 (4.3.2.0.02) IY03412 (4.3.2.0.02) IX85104 (4.3.2.0.01) IX87313 (4.3.2.0.01) IX87382 (4.3.2.0.01) IX89552 (4.3.2.0.01) IX81863 (4.3.1) IX72696 (4.3.0)</p>	<p><u>4.2 related required APARs</u> IX62429 (4.2.0) IX67174 (4.2.0) IX67978 (4.2.1) IX68932 (4.2.1) IX70737 (4.2.1) IX78933 (4.2.1.0.03) IX81957 (4.2.1.0.03) IX86229 (4.2.1.0.05)</p> <p><u>4.3 related required APARs</u> IX71948 (4.3.0) IX79690 (4.3.0) IX81863 (4.3.1)</p>	<p>bos.adt.base, bos.adt.libm must be installed</p> <p><u>4.2 related required APARs</u> IX62429 (4.2.0) IX67174 (4.2.0) IX67978 (4.2.1) IX68932 (4.2.1) IX70737 (4.2.1) IX78933 (4.2.1.0.03) IX81957 (4.2.1.0.03) IX86229 (4.2.1.0.05)</p> <p><u>4.3 related required APARs</u> IX71948 (4.3.0) IX79690 (4.3.0) IX81863 (4.3.1)</p>	<p>bos.adt.base, bos.adt.libm must be installed</p> <p><u>4.1 related required APARs</u> IX54124 (4.1.4) IX55203 (4.1.5.0.01) IX62330 (4.1.5) IX58455 (4.1.4) IX61237 (4.1.4) IX67074 (4.1.5) IX61933 (4.1.5) IX70194 (4.1.5)</p> <p><u>4.2 related required APARs</u> IX62429 (4.2.0) IX67174 (4.2.0) IX67978 (4.2.1) IX68932 (4.2.1) IX70737 (4.2.1) If running 4.2 then need bos.rte.libc version 4.2.0.5</p> <p><u>4.3 related required APARs</u> IX71948 (4.3.0)</p>
<p><a href="#">AIX Kernel Settings</a></p>	<p>AIXTHREAD_SCOPE=S</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>	<p>= L_PTHREADS_D7 (if using 4.3)</p>	<p>LINK_CNTRL = L_PTHREADS_D7 (if using 4.3)</p>	<p>LINK_CNTRL (if using 4.3)</p>
<p><b>Oracle Version</b></p>	<p><b>10g</b></p>	<p><b>9.2.0</b></p>	<p><b>9.0.1</b></p>	<p><b>8.1.7</b></p>	<p><b>8.1.6</b></p>	<p><b>8.1.5</b></p>	<p><b>8.0.6</b></p>	<p><b>8.0.5</b></p>
<p><b>HP OS</b> (32- and 64-bit stands for Oracle not OS)</p>	<p>11.11 (64bit) 11.23 (IA64 - Itanium)</p>	<p>11.0 (64bit) 11.11 (64bit) 11.22, 11.23 (IA64 - Itanium)</p>	<p>11.0 (64bit) 11.11 (64bit)</p>	<p>11.0, 11.11(11i) (32bit/64bit)</p>	<p>11.0, 11.11 (11i) (32bit/64bit)</p>	<p>11.0, 11.11(11i) (32bit/64bit)</p>	<p>10.20 (32bit) 11.0, 11.11(11i) (32bit/64bit)</p>	<p>10.20 (32bit) 11.0 (32 or 64)</p>
<p><b>HP Disk Space</b></p>	<p>1.2G Database 2.5G Software 1G Companion 150M-1.5G Client</p>	<p>4.5G</p>	<p>3.5G</p>	<p>1.5G</p>	<p>910Mb</p>	<p>900Mb</p>	<p>900Mb</p>	<p>900Mb</p>

<a href="#">HP RAM</a>	512Mb 256Mb(Client/Compan)	512Mb	256Mb	256Mb	128Mb	128Mb	64Mb or 128Mb / ConText	32Mb or 128Mb / ConText
<a href="#">HP swap</a>	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM	2*RAM	2*RAM	2*RAM	3*RAM	3*RAM	3*RAM
<a href="#">HP tmp</a>	400Mb	400Mb	400Mb	75Mb	?	75Mb	50Mb	50Mb
<a href="#">HP jdk &amp; JRE</a>	Java SDK 1.4.2.00 is installed	JDK 1.3.1.02 & 1.1.8.06	JDK 1.2.2.07 & 1.1.8	JDK 1.2.2 & 1.1.8.03	1.1.8.10	1.1.7	n/a	n/a
<a href="#">HP Patches/ Packages</a>  "s/b" indicates superceded by  See < <a href="#">Note:43507.1</a> > for other applicable patches.	Per HP Bug (Doc ID: KBRC00003627) The default 64bit OS installation does not create a few required X library symbolic links. The following symbolic links need to be created: 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 ln -s /usr/lib/libXhp1.3 libXhp1.sl ln -s /usr/lib/libXi.3 libXi.sl ln -s /usr/lib/libXm.4 libXm.sl ln -s /usr/lib/libXp.2 libXp.sl ln -s /usr/lib/libXt.3 libXt.sl ln -s /usr/lib/libXtst.2 libXtst.sl  GOLDQPK11i, June 2003 or later GOLDAPPS11i GOLDBASE11i  PHCO_28123 PHKL_29198 PHNE_28476 PHNE_28923 PHSS_28871 PHSS_28880 PHCO_26331 PHCO_29109 PHKL_25468 PHKL_25842 PHKL_25993 PHKL_25994 PHKL_25995 PHKL_26468 PHKL_28489  HP-UX 11.23 (IA64) Operating System Patches: PHSS_29658 s/b PHSS_30015 s/b PHSS_30237 PHSS_29660  <a href="#">Java SDK 1.4.2 latest patches</a>	Per HP Bug (Doc ID: KBRC00003627) The default 64bit OS installation does not create a few required X library symbolic links. The following symbolic links need to be created: 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 ln -s /usr/lib/libXhp1.3 libXhp1.sl ln -s /usr/lib/libXi.3 libXi.sl ln -s /usr/lib/libXm.4 libXm.sl ln -s /usr/lib/libXp.2 libXp.sl ln -s /usr/lib/libXt.3 libXt.sl ln -s /usr/lib/libXtst.2 libXtst.sl  HP-UX 11.0(64 bit) Operating System Patches: Sept 2001 Quality Pack PHCO_23792 s/b PHCO_26960 PHCO_24148 s/b PHCO_25707 s/ b PHCO_27608 PHKL_24268 s/b PHKL_27178 (has been recalled by HP may destroy logical volumes on PVGs - <a href="#">more info</a> PHKL_24729 PHKL_25475 s/b PHKL_27510 PHKL_25525 s/b PHKL_27364 PHNE_24715 s/b PHNE_26771 PHSS_23670 s/b PHSS_26138 PHSS_24301 s/b PHSS_26273 (only needed for C++ compiler and Pro*C++) PHSS_24303 s/b PHSS_26559 PHSS_24627 PHSS_22868 (only needed for C+ + compiler and Pro*C++)  HP-UX 11i (64 Bit) Operating System Patches: Support Plus Bundle 'December 2002 SP-0212' or later JDK 1.3.1.02 PHNE_27745 (For RAC systems) PHNE_28568 PHKL_25506 PHSS_26560 PHSS_26946 PHSS_28849 (For ServiceGuard systems)	HP-UX 11.0(64 bit) Operating System Patches: Dec 2000 patch bundle PHCO_23092 s/b PHCO_23963 s/ b PHCO_26111 PHCO_23770 s/b PHCO_25707 s/ b PHCO_27608 PHCO_23919 s/b PHCO_27340 PHKL_18543 PHKL_23226 s/b PHKL_27510 PHKL_23813 s/b PHKL_25525 s/ b PHKL_27364 PHKL_23814 s/b PHKL_24729 PHKL_23815 s/b PHKL_26337 s/ b PHKL_27553 PHKL_23857 s/b PHKL_25525 s/ b PHKL_27364  HP-UX 11i (64 bit) Operating System Patches Status PHCO_23094 s/b PHCO_24402 PHCO_23772 s/b PHCO_26124 s/ b PHCO_27910 PHSS_23441 s/b PHSS_26263 PHNE_23502 s/b PHNE_25625 s/ b PHNE_26388 s/b PHNE_28568	11.0 patches: PHSS_21947 s/b PHSS_24303 s/b PHSS_26559 PHNE_20316 s/b PHNE_22566 s/b PHNE_25440 PHKL_21392 s/b PHKL_24027 PHKL_22145 s/b PHKL_25475 s/b PHKL_27510 PHKL_22266 s/b PHKL_27178  DART 49, 6/00	Patch Bundle9905 PHCO_17556 s/b PHCO_23651 PHCO_17792 s/b PHCO_21187 s/b PHCO_25902 PHCO_18229 s/b PHCO_23963 s/b PHCO_26111 PHCO_19491 s/b PHCO_25707 s/b PHCO_27608 PHCO_19666 s/b PHCO_23792 s/b PHSS_26960 PHKL_14750 s/b PHKL_25475 s/b PHKL_27510 PHKL_17038 s/b PHKL_25525 s/b PHKL_27364 PHKL_18543 PHKL_19800 s/b PHKL_24027 PHKL_20016 PHKL_20079 s/b PHKL_24027 PHNE_19616 s/b PHNE_24100 s/b PHNE_25385 PHSS_14582 s/b PHSS_26320 PHSS_15853 s/b PHSS_23546	PHKL_14750 s/b PHKL_25475 s/b PHKL_27510 PHKL_17709 s/b PHKL_23792 s/b PHKL_26960 PHKL_17869 s/b PHKL_18543 PHNE_17446 s/b PHNE_21767 s/b PHNE_26771  64bit 11.0 PHSS_15316 s/b PHSS_24303 s/b PHSS_26559 PHSS_16404 s/b PHSS_24303 s/b PHSS_26559  64bit 11.0 PHSS_15316 s/ b PHSS_24303 s/b PHSS_26559 PHSS_16404 s/ b PHSS_24303 s/b PHSS_26559	32/64bit 11.0 PHNE_15995 s/b PHNE_21767 s/b PHNE_26771 PHNE_16283 s/b PHNE_21767 s/b PHNE_16283 s/b PHNE_21767 s/b PHNE_26771  64bit 11.0 PHSS_15316 s/ b PHSS_24303 s/b PHSS_26559 PHSS_16404 s/ b PHSS_24303 s/b PHSS_26559	32/64bit 11.0 PHNE_15995 s/b PHNE_21767 s/b PHNE_26771 s/b PHNE_16283 s/b PHNE_21767 s/b PHNE_26771

PHCO\_28427  
PHCO\_24402

HP-UX 11.22 (IA64) Operating  
System Patches:  
PHSS\_27284 s/b PHSS\_28977  
PHSS\_27285 s/b PHSS\_28970  
PHSS\_27286 s/b PHSS\_28978  
PHSS\_27287 s/b PHSS\_29652  
PHSS\_27288 s/b PHSS\_28971  
PHSS\_27289 s/b PHSS\_29653  
PHSS\_27290 s/b PHSS\_28973  
PHSS\_27291 s/b PHSS\_28969  
PHSS\_27292 s/b PHSS\_29654  
PHSS\_27293 s/b PHSS\_28975  
PHKL\_28465

s/b  
PHSS\_26566  
PHSS\_16849  
s/b  
PHSS\_25718  
s/b  
PHSS\_27469  
PHSS\_17535  
s/b  
PHSS\_25091  
PHSS\_18066  
PHSS\_18110  
s/b  
PHSS\_26273  
PHSS\_18430  
s/b  
PHSS\_25199  
s/b  
PHSS\_26495  
PHSS\_18649  
s/b  
PHSS\_26320  
PHSS\_19593  
s/b  
PHSS\_25447  
s/b  
PHSS\_27230  
PHSS\_19178  
s/b  
PHSS\_25249  
PHSS\_19748  
s/b  
PHSS\_25149  
s/b  
PHSS\_26490  
PHSS\_19866  
s/b  
PHSS\_24303  
s/b  
PHSS\_26559  
PHSS\_20544  
s/b  
PHSS\_26138  
PHSS\_20014  
s/b  
PHSS\_24303  
s/b  
PHSS\_26559  
PHSS\_21180

[HP Kernel  
Settings](#)

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 (2+MSGMNI)  
MSGMNI NPROC  
MSGSEG 32767  
MSGTQL 4096  
NCSIZE (NINODE+VX\_NCSIZE)  
NFILE (15\*NPROC+2048)  
NFLOCKS 4096  
NINODE (8\*NPROC+2048)

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)

SHMMAX AvailMem  
SHMMIN ?  
SHMMNI 512  
SHMSEG 32  
SEMMNI 8192  
SEMMNS 16384  
  
MAXDSIZ  
1073741824 bytes  
  
MAXDSIZ\_64BIT  
2147483648 bytes  
  
MAXSSIZ  
134217728 bytes

SHMMAX 1GB  
SHMMIN 1  
SHMMNI 100  
SHMSEG 10  
SEMMNI 70  
SEMMNS 200

nflocks = 200 + sum of  
the values of init.ora  
parameter db\_files  
for all instances of oracle  
onthe machine.

MAX\_THREAD\_PROC  
= 256 or more

SHMMAX  
1GB  
SHMMIN 1  
SHMMNI 100  
SHMSEG 10  
SEMMNI 70  
SEMMNS 200  
maxdsiz and  
maxdsiz\_64bit  
must be >=  
128Mb

SHMMAX 1GB  
SHMMIN 1  
SHMMNI 100  
SHMSEG 10  
SEMMNI 70  
SEMMNS 200  
maxdsiz and  
maxdsiz\_64bit  
must be >= 128Mb

SHMMAX 1GB  
SHMMIN 1  
SHMMNI 100  
SHMSEG 10  
SEMMNI 70  
SEMMNS 200  
maxdsiz and  
maxdsiz\_64bit  
must be >= 128Mb

SHMMAX  
1GB  
SHMMIN 1  
SHMMNI 100  
SHMSEG 10  
SEMMNI 70  
SEMMNS 200  
  
maxdsiz and  
maxdsiz\_64bit  
must be >=  
128Mb

	NKTHREAD (((NPROC*7)/4)+16) NPROC 4096 SEMMAP (SEMMNI+2) SEMMNI 4096 SEMMNS (SEMMNI*2) SEMMNU (NPROC - 4) SEMMVMX 32768 SHMMAX AvailMem SHMMNI 512 SHMSEG 120 VPS_CEILING 64	NFILE (15*NPROC+2048) NFLOCKS 4096 NINODE (8*NPROC+2048) NKTHREAD (((NPROC*7)/4)+16) NPROC 4096 SEMMAP (SEMMNI+2) SEMMNI 4096 SEMMNS (SEMMNI*2) SEMMNU (NPROC - 4) SEMMVMX 32768 SHMMAX AvailMem SHMMIN 1 SHMMNI 512 SHMSEG 32 VPS_CEILING 64	MAXSSIZ_64BIT 1073741824	maxdsiz 1Gb (1073741824) 0x40000000  maxdsiz_64bit 1.6Gb (1717986918) 66666666  maxssiz 200mb (209715200) C800000  maxssiz_64bit 200mb (209715200) C800000  maxtsiz 1Gb (1073741824) 0x40000000  maxtsiz_64bit 1Gb (1073741824) 0x40000000				
<b>Oracle Version</b>	<b>10g</b>	<b>9.2.0</b>	<b>9.0.1</b>	<b>8.1.7</b>	<b>8.1.6</b>	<b>8.1.5</b>	<b>8.0.6</b>	<b>8.0.5</b>
<b>Sun SPARC OS</b> (32- and 64-bit stands for Oracle not OS)	2.8, 2.9 (64bit)	2.6, 2.7, 2.8, 2.9 (32bit) 2.8, 2.9 (64bit)	2.6, 2.7, 2.8, 2.9 (32bit) 2.8, 2.9 (64bit)	2.6, 2.7, 2.8, 2.9 (32bit) 2.8 (64bit)	2.6, 2.7, 2.8 (32bit) 2.7, 2.8 (64bit)	2.6, 2.7, 2.8 (32bit) 2.7 (64bit)	2.5.1, 2.6, 2.7, 2.8	2.5.1, 2.6, 2.7, 2.8
<b>Sun Disk Space</b>	1.2G Database 1.5G Software 1G Companion 150M-1G Client	4.5G	3.5G (32bit) 5.7G (64bit)	1355Mb	1170Mb	811Mb	600Mb	600Mb
<b>Sun RAM</b>	512Mb 256Mb(Client/Compan)	512Mb	256Mb (32bit) 512Mb (64bit)	128Mb	128Mb	128Mb	64Mb or 128Mb / ConText	32Mb or 128Mb / ConText
<b>Sun swap</b>	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM	400Mb	2*RAM or 400Mb	2*RAM or 400Mb	2*RAM	3*RAM	3*RAM
<b>Sun tmp</b>	400Mb	400Mb	400Mb	?	?	?	20Mb	20Mb
<b>Sun JDK &amp; JRE</b>	JDK 1.4.2_01 is installed	JDK 1.3.1_02 & 1.1.8_12 (32bit) 1.1.8_15 (64bit)	JDK 1.2.2_07 & 1.1.8_12	JDK 1.2.2. & 1.1.8_10	1.1.8_10	?	n/a	n/a
<b>Sun Patches/ Packages</b>	Required Packages: SUNWarc, SUNWbtool, SUNWhea, SUNWlibC (CRS only) SUNWlibm, SUNWlibms, SUNWsprt, SUNWtoo SUNWmfrun (Spatial only) SUNWsprt, SUNWsprrox, SUNWtoo, SUNWxwfmt, SUNW1cs, SUNW15cs, SUNW1of	32bit/64bit SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprt, SUNWtoo SUNW1of and SUNWxwfmt (for Java) SUNWsprrox (for 64bit Oracle)  108528-05 (2.8)	32bit/64bit SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprt, SUNWtoo  Additional 64bit SUNWarcx, SUNW2x (believe this is a typo and should be SUNWtoox)	SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprt, SUNWtoo  2.6 requires at least 105181-15	SUNWarc, SUNWbtool, SUNWhea, SUNWlibm, SUNWlibms, SUNWsprt, SUNWtoo  2.6 requires at least 105181-15	SUNWarc, SUNWbtool, SUNWlibm, SUNWlibms, SUNWsprt, SUNWtoo, SUNWhea.  Sun 2.6 requires 105181-06		

	<p>Solaris 8 Req'd 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 Req'd Patches:  112233-11  111722-04</p>		108528-01 (2.8) 105181-15 (2.6)					
<a href="#">Sun Kernel Settings</a>	SEMMNI 100 SEMMNS 1024 SEMMSL 256 SEMVMX 32767 SHMMAX 4294967295 SHMMIN 1 * SHMMNI 100 SHMSEG 10 * NO_EXEC_USER_STACK 1 * * obsolete in Solaris 9	SEMMNI 100 SEMMNS 1024 SEMMSL 256 SHMMAX 4294967295 SHMMIN 1 SHMMNI 100 SHMSEG 10	SEMMNI 100 SEMMNS 256 SEMMSL 256 SHMMAX 4294967295 SHMMIN 1 SHMMNI 100 SHMSEG 10	SHMMAX 4294967295 SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMNI 100 SEMMSL Set to 10 plus the largest PROCESSES parameter of any Oracle database on the system. SEMMNS Set to the sum of the PROCESSES parameter for each Oracle database, adding the largest one twice, then add an additional 10 for each database. SEMOPM 100 SEMVMX 32767	SHMMAX 4294967295 SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMNI 100 SEMMSL Set to 10 plus the largest PROCESSES parameter of any Oracle database on the system. SEMMNS Set to the sum of the PROCESSES parameter for each Oracle database, adding the largest one twice, then add an additional 10 for each database. SEMOPM 100 SEMVMX 32767	SHMMAX 0.5* (physical memory present in machine) SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMNI 100 SEMMSL Set to 10 plus the largest PROCESSES parameter of any Oracle database on the system. SEMMNS Set to the sum of the PROCESSES parameter for each Oracle database except the largest one, plus 2 times the largest PROCESSES value, plus 10 times the number of Oracle databases. SEMOPM 100 SEMVMX 32767	SHMMAX 4294967295 SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMNS 200 SEMMNI 70 SEMMSL Equal to or greater than the value of the PROCESSES initialization parameter.	SHMMAX 4294967295 SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMNS 200 SEMMNI 70 SEMMSL Equal to or greater than the value of the PROCESSES initialization parameter.
<b>Oracle Version</b>	<b>10g</b>	<b>9.2.0</b>	<b>9.0.1</b>	<b>8.1.7</b>	<b>8.1.6</b>	<b>8.1.5</b>	<b>8.0.6</b>	<b>8.0.5</b>
<a href="#">Tru64 OS</a>	5.1b	5.1, 5.1a, 5.1b	5.0a, 5.1, 5.1a, 5.1b	4.0D-G, 5.0, 5.0a, 5.1, 5.1a, 5.1b(EV5.6 processor or higher) do 'usr/sbin/psrinfo -v'	4.0D-G, 5.0, 5.0a, 5.1	4.0D-G, 5.0, 5.0a, 5.1	4.0D-G, 5.0, 5.0a, 5.1, 5.1a	4.0D-G, 5.0, 5.0a

<b>Tru64 Disk Space</b>	1.2G Database 3G Software 1G Companion 150M-1.9G Client	4.5G	4.7G	1.5G	1.2G	811Mb	800Mb	800Mb
<a href="#">Tru64 RAM</a>	512Mb 256Mb(Client/Compan)	512Mb	256Mb	128Mb	128Mb	128Mb	128Mb	128Mb
<a href="#">Tru64 swap</a>	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM	400Mb	400Mb	400Mb	2-4*RAM	2-4*RAM	2-4*RAM
<b>Tru64 tmp</b>	400Mb	400Mb	400Mb	75Mb	?	75Mb	40Mb	40Mb
<b>Tru64 JDK &amp; JRE</b>	SDK 1.4.2 needs to be installed <a href="#">download here</a>	JDK 1.3.1.03 & 1.1.8-10	JDK 1.2.2-8 & 1.1.8-10	JDK 1.2.2. & 1.1.8-7	1.1.8	?	n/a	n/a
<a href="#">Tru64 Patches/ Packages</a>	OSFSER OSFLIBA OSFPGMR OSFCMPLRS OSFX11 OSFXDEVX (Spatial only) OSFXINCLUDE (Spatial only) OSFXLIBA (Spatial only)  5.1B with patchkit 2: T64V51BB22AS0002-20030415  HP TRU64 Unix 5.1B PK2 BL22 Fixes for AdvFS panic in _OtsMove; and possible memory corruption: T64KIT0020879-V51BB22-E-20031125	OSFSER OSFLIBA OSFPGMR OSFCMPLRS  5.1 with patchkit 5 (T64V51B19) or higher also with T64V51B19-C0125001-14319-E-20020516.tar (C1250.01 PatchId) and T64V51B19-C0151600-15736-E-20021017.tar (C1516.00 PatchId). Go to <a href="#">here</a> to download  5.1a with patchkit 3 (T64V51AB3) or higher and T64V51AB3-C0074700-15747-E-20021018.tar (C747.00 PatchId). Go to <a href="#">here</a> to download  5.1b = Patchkit 2 or greater, apply patch 01414.00 (included in Pk3) to address <Note: 261309.1> ld seg fault	OSFSER OSFLIBA OSFPGMR OSFCMPLRS  5.0a patchkit 2 and bugfix HPAQ217F3 or patchkit 3 and bugfix HPAQ217F3 or patchkit 4  5.1 patchkit 5 with T64V5117_C0038300_unique_id_and_mfg_date.tar T64V51B19-C0125001-14319-E-20020516.tar (C1250.01 PatchId), T64V51B19-C0151600-15736-E-20021017.tar (C1516.00 PatchId). Go to <a href="#">here</a> to download  5.1a patchkit 4 with T64V51AB3-C0074700-15747-E-20021018.tar (C747.00 PatchId). Go to <a href="#">here</a> to download  5.1b = Patchkit 2 or greater, apply patch 01414.00 (included in Pk3) to address <Note: 261309.1> ld seg fault = Patchkit 2 or greater	OSFLIBA, OSFPGMR, OSFCMPLRS  4.0D = Patchkit 4 or greater  4.0E = Patchkit 2 or greater  4.0F = Patchkit 1 or greater  5.1 = Patchkit 5 or greater with T64V51B19-C0125001-14319-E-20020516.tar (C1250.01 PatchId) and T64V51B19-C0151600-15736-E-20021017.tar (C1516.00 PatchId). .Go to <a href="#">here</a> to download  5.1a = Patchkit 3 or greater with T64V51AB3-C0074700-15747-E-20021018.tar (C747.00 PatchId). Go to <a href="#">here</a> to download  5.1b = Patchkit 2 or greater, apply patch 01414.00 (included in Pk3) to address <Note: 261309.1> ld seg fault	OSFLIBA, OSFPGMR, OSFCMPLRS  4.0D = Patchkit 4 or greater  4.0E = Patchkit 2 or greater  4.0F = Patchkit 1 or greater	OSFLIBA, OSFPGMR, OSFCMPLRS	OSFLIBA, OSFPGMR, OSFCMPLRS	

<a href="#">Tru64 Kernel Settings</a>	<p>MAX_PER_PROC_STACK_SIZE 33554432  PER_PROC_STACK_SIZE 8388608  PER_PROC_DATA_SIZE 335544320  PER_PROC_ADDRESS_SPACE 1073741824  MAX_PER_PROC_ADDRESS_SPACE 1073741824 or RAM whichever is greater  MAX_PER_PROC_DATA_SIZE 335544320  SHM_MAX 4278190080 (4 GB less 16MB)  SHM_MIN 1  SHM_MNI 256  SHM_SEG 256  NEW_WIRE_METHOD 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</p> <p>* 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.</p>	<p>MAX_PER_PROC_STACK_SIZE 33554432  PER_PROC_STACK_SIZE 33554432  PER_PROC_DATA_SIZE 201326592  SHM_MAX 4278190080 (4 GB less 16MB)  SHM_MIN 1024  SHM_MNI 256  SHM_SEG 128  NEW_WIRE_METHOD 0  FIFO_DO_ADAPTIVE 0</p> <p>Alpha processor EV5.6 or later</p>	<p>MAX_PER_PROC_STACK_SIZE 33554432  PER_PROC_STACK_SIZE 33554432  PER_PROC_DATA_SIZE 201326592  SHM_MAX 4278190080 (4 GB less 16MB)  SHM_MIN 1024  SHM_MNI 256  SHM_SEG 128  NEW_WIRE_METHOD 0  FIFO_DO_ADAPTIVE 0</p> <p>Alpha processor EV5.6 or later</p>	<p>SHMMAX 2139095040 (2GB-8MB)  SHMMIN 1  SHMMNI 100  SHMSEG 32  NEW_WIRE_METHOD 0  FIFO_DO_ADAPTIVE 0</p> <p>vm-mapentries=1024 in the /etc/sysconfigtab, verify with 'sbin/sysconfig -q vm'</p> <p>Alpha processor EV5.6 or later</p>	<p>SHMMAX 2139095040 (2GB-8MB)  SHMMIN 1  SHMMNI 100  SHMSEG 32</p>	<p>SHMMAX 8388608 or higher than the maximum SGA size.  Note: If anticipated SGA size is greater than 2 GB, set it to 2 GB - 8 MB; otherwise, round the SGA sizeup to the next 8 MB and set that to SHMMAX.  SHMMIN 1  SHMMNI 100  SHMSEG 32</p>	<p>SHMMAX 2139095040 (2 GB-8 MB)  SHMMIN 1  SHMMNI 100  SHMSEG 32</p>	<p>SHMMAX 8388608 or higher than the maximum SGA size.  Note: If anticipated SGA size is greater than 2 GB, set it to 2 GB - 8 MB; otherwise, round the SGA size up to the next 8 MB and set that to SHMMAX.  SHMMIN 1  SHMMNI 100  SHMSEG 32</p>
<b>Oracle Version</b>	<b>10g</b>	<b>9.2.0</b>	<b>9.0.1</b>	<b>8.1.7</b>	<b>8.1.6</b>	<b>8.1.5</b>	<b>8.0.6</b>	<b>8.0.5</b>
<a href="#">Linux OS</a> (See also <a href="#">&lt;Note:225710.1&gt;</a> )	Red Hat Advanced Server ( RHAS ) 2.1, Red Hat Enterprise Linux ( RHEL ) 3.0, SuSE SLES8 United Linux 1.0 is not certified	Red Hat Advanced Server ( RHAS ) 2.1, Red Hat Enterprise Linux ( RHEL ) 3.0, SuSE SLES7, SLES8, United Linux 1.0, Kernel 2.4.7	Caldera OU8+LKP, Red Hat 7.1, Advanced Server 2.1, SuSE 7.1, 7.2, SLES7, Kernel 2.4.4	Caldera OU8+LKP, Miracle 1.0, 2.0, Red Hat 6.1,6.2, EE 6.2, 7.0, 7.1, Advanced Server 2.1, SuSE 7.0, 7.1, 7.2, SLES7, Kernel 2.2.16	Miracle 1.0, Red Hat 6.0,6.1,6.2, EE 6.2, SuSE 6.3, 6.4, 7.0, VA 6.2, Kernel 2.2	Red Hat 6.2, EE 6.2, SuSE 6.3, 6.4, Kernel 2.2	Red Hat 6.2, SuSE 6.4, 7.0, Kernel 2.0.34	2.0.34
<b>Linux Disk Space</b>	1.2G Database 1.5G Software 1G Companion 150M-650M Client	4.5G	3.5G	900Mb	1G	811Mb	400Mb	400Mb
<a href="#">Linux RAM</a>	512Mb 256Mb(Client/Compan)	512Mb	512Mb	128Mb	128Mb	128Mb	32Mb	32Mb
<a href="#">Linux swap</a>	1Gb or match RAM 512Mb(Client/Compan)	1Gb or match RAM	512Mb	400Mb	400Mb	256Mb	3*RAM	3*RAM
<b>Linux tmp</b>	400Mb	400Mb	400Mb	75Mb	75Mb	75Mb	75Mb	20Mb
<b>Linux JDK &amp; JRE</b>	JDK 1.4.2_02 is installed	Sun JDK 1.3.1_02 & Blackdown 1.1.8_v3	Blackdown JDK 1.1.8_3 & 1.1.8_v3	JDK 1.2.2. & 1.1.8-3from IBM	1.1.8	1.1.6v5	n/a	n/a



<a href="#">Linux Patches/ Packages</a>	<p>ALL: make-3.79 binutils-2.11.90.0.8-12</p> <p>RHAS 2.1: gcc-2.96.108.1 openmotif-2.1.30-11 XFree86 (Spatial only) XFree86-devel (Spatial only)</p> <p>RHEL 3: gcc-3.2.3-2 compat-db-4.0.14.5 compat-gcc-7.3-2.96.122 compat-gcc-c++-7.3-2.96.122 compat-libstdc++-7.3-2.96.122 compat-libstdc++-devel-7.3-2.96.122 openmotif_2.2.2-16 setarch-1.3-1 XFree86 (Spatial only) XFree86-devel (Spatial only)</p> <p>SLES8: gcc-3.2.2-38 openmotif-2.2.2-124 xf86 (Spatial only) x-devel (Spatial only)</p>	<p>glibc 2.2.2, 2.2.5 SP2a for United Linux 1.0</p>	<p>make-3.79, and binutils-2.10.</p>	<p>GLIBC package version 2.1.3 or higher</p>	<p>GLIBC package version 2.1</p>	<p>GNU C Library, version 2.0.6 GLIBC package version 2.1</p>	<p>GNU C Library, version 2.0.7 TCL library (libtcl. so), version 8.0.2-16</p>	<p>GNU C Library, version 2.0.7 TCL library (libtcl.so), version 8.0.2- 16</p>
<a href="#">Linux Kernel Settings</a>	<p>SEMMSL 250 SEMMS 32000 SEMMIN 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 2097152 FILEMAX 65536 IP_LOCAL_PORT_RANGE 1024 65000</p>	<p>SEMMIN 100 SEMMS 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 100 SHMSEG 4096</p>	<p>SEMMIN 100 SEMMS 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 100 SHMSEG 4096</p>	<p>SHMMAX 0.5* (physical memory present in machine). SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMIN 100 SEMMSL Set to 10 plus the largest PROCESSES parameter of any Oracle database on the system. SEMMS Set to the sum of the PROCESSES parameter for each Oracle database, adding the largest one twice, then add an additional 10 for each database. SEMOPM 100 SEMVMX 32767</p>	<p>SHMMAX 0.5*(physical memory present in machine). SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMIN 100 SHMSEG 10 SEMMSL Set to 10 plus the largest initids.ora PROCESSES parameter of an Oracle database on the system. SEMMS Set to the sum of the PROCESSES parameter for each Oracle database, adding the largest one twice, then add an additional 10 for each database. SEMOPM 100 SEMVMX 32767</p>	<p>SHMMAX 0.5 * (physical memory present in machine) SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMIN 100 SEMMSL Set to 10 plus the largest initids.ora PROCESSES parameter of an Oracle database on the system. SEMMS Set to the sum of the PROCESSES parameter for each Oracle database except the largest one, plus 2 times the largest PROCESSES value, plus 10 times the number of Oracle databases. SEMOPM 100 SEMVMX 32767</p>	<p>SHMMAX (1/4 of RAM) SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMS 200 SEMMIN 70 SEMMSL Equal to or greater than the value of the PROCESSES initialization parameter.</p>	<p>SHMMAX (1/4 of RAM) SHMMIN 1 SHMMNI 100 SHMSEG 10 SEMMS 200 SEMMIN 70 SEMMSL Equal to or greater than the value of the PROCESSES initialization parameter.</p>

<b>Oracle Version</b>	<b>10g</b>	<b>9.2.0</b>	<b>9.0.1</b>	<b>8.1.7</b>	<b>8.1.6</b>	<b>8.1.5</b>	<b>8.0.6</b>	<b>8.0.5</b>
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## RELATED DOCUMENTS

8.0.5 to 10g Installation Guides (for AIX, HP, Sun, Tru64 and Linux)

<[Note:132121.1](#)> 8.0.5 to 9.0.1 Release Notes (for AIX, HP, Sun, Tru64 and Linux)

<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:136016.1](#)>Unix Command Translation

<[Note: 189256.1](#)>UNIX: Script to Verify Installation Requirements for Oracle 9.x version of RDBMS

## OS SPECIFIC COMMANDS

### To Find Swap, RAM, and OS Version

OS	SWAP	RAM	OS VERSION
AIX	/usr/sbin/lspv -a	/usr/sbin/lssattr -HE -l sys0 -a realmem	oslevel
HP	swapinfo -q	dmesg   grep -i mem	uname -a
Tru64	swapon -s	vmstat -P	/usr/sbin/sizer -v
Solaris	swap -s	/usr/sbin/prtconf   grep -i memory	uname -r
Linux	free	free	uname -a

### 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 < <a href="#">Note:1019106.102</a> >)
HP	/stand/system	/etc/sysdef or /usr/sbin/kmtune
Tru64	/etc/sysconfigtab	/sbin/sysconfig -q ipc or /sbin/sysconfig -q vm or /sbin/sysconfig -q proc
Solaris	/etc/system /usr/src/linux/include/asm/shmparam.h /usr/src/linux/include/linux/sem.h	"/etc/sysdef   grep SHM" or "/etc/sysdef   grep SEM"
Linux	/proc/sys/kernel/sem /proc/sys/kernel/shmall /proc/sys/kernel/shmmax /proc/sys/kernel/shmni	ipcs -lms

### 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 -ia -ivk <i>patch number</i>
HP	/usr/sbin/swlist -l fileset   grep -i "software title"	/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	rpm -qa	

### 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**

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"