Chapter 2

Read this after installation

After you have installed UnixWare, you should follow the instructions for configuring your system in the *Installation Guide* in conjunction with the special information contained in this chapter.

This chapter covers the following:

- Large physical memory support (this page)
- Reconfiguring IPX/SPX after installation (page 26)
- Setting up SPX or TCP installation servers (page 26)
- Switching auditing on (page 27)
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Large physical memory support

Any machine which contains memory at or above address 4G (2^32) requires large physical memory (LPM) support. Examples of machines that required LPM are a Corollary architecture system with more than 4GB of memory, or a Unisys Aquanta system with more than 3GB.

See "Large physical memory" in the online documentation under **System management ⇨ Understanding system administration ⇨ Performing basic system tuning and monitoring** for details of how to configure LPM support.

Note that the following corrections and clarifications apply to the information in "Large physical memory" in the online documentation:

- The references to tuning the **PAGEOUTRATE** parameter no longer apply. This parameter is autotuned.

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- The **DEDICATED_MEMORY** parameter needs to be set only if you wish to dedicate memory below 4GB. If **ENABLE_4GB_MEM** is set, memory above 4GB is dedicated automatically. If you set **DEDICATED_MEMORY** in this case, you must set it to the amount of dedicated memory that you require, plus the total amount of memory over 4GB.

  Alternatively, set **DEDICATED_MEMORY** to "unlimited", then set **GENERAL_MEMORY** to the amount of general purpose memory that you require. For example, to use 128MB as general purpose memory, and the remainder for dedicated memory, set the following tunables.

  DEDICATED_MEMORY 16777216
  GENERAL_MEMORY 32768

- In addition to setting **ARG_MAX** as suggested, you may also need to set the **MAXRSS** parameter as follows:

Suggested value	For...
0x2000	typical systems
0x20000	netscape server or departmental server
0x40000000	data base server

- The commands required to set tunables for a Netscape server are similar to the following:

  /etc/conf/bin/idtune SDATLIM 0x7fffffff
  /etc/conf/bin/idtune HDATLIM 0x7fffffff
  /etc/conf/bin/idtune SVMMLIM 0x7fffffff
  /etc/conf/bin/idtune HVMMLIM 0x7fffffff

Reconfiguring IPX/SPX after installation

It is strongly recommended that you use the **Network Configuration Manager** (**netcfg**) rather than **nwcm**(1Mipx) if you need to modify your system's IPX/SPX configuration. Similarly, you should not modify IPX/SPX configuration files using a text editor.

Setting up SPX or TCP installation servers

Note that setting up TCP or SPX servers can be problematic if the server is also an NIS client as it will pick up the services map rather than the local */etc/services* file. This can cause TCP/IP and IPX/SPX both to be misconfigured. You need to ensure that the services map contains inetinst 6969/tcp and 1006/spx entries for network installs to work.

Setting up an SPX server requires that a sapd is running. This means that the system must be configured with an internal network number via IPX/SPX configuration in **netcfg**. The router type must also be set to **FULL** so that the service will be advertised using RIP.

Switching auditing on

Even if you select the auditing package and therefore install it during the installation procedure, auditing is not turned on by default when the system boots.

To turn auditing on manually, run **auditon**(1M) as root. You should run **auditoff**(1M), also as root, to turn auditing off before you shut down the system. Rebooting the system with auditing switched on is very slow and should be avoided.

You should preferably switch auditing on automatically after the system boots and switch it off again before shutdown. To do this, edit */etc/rc2.d/S02audit* to remove the comments from the lines that execute the commands **auditon** and **auditoff**.

Enabling SCOhelp searching

The SCOhelp search capability may not be enabled on your server. To enable it, you must run the Verity indexing command:

/usr/man/bin/config_search -f

NOTE The configuration requires at last 32KB of RAM to be available on the system. Attempting it with less may result in a core dump.

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