6.0 DIGITAL Server 7000 Specific Information   V3.11

This portion of the README file provides information specific
to the DIGITAL Server 7000 rackmount series servers,
models 7100R and 7105R.

6.1 Server-Specific Contents

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   7.0 QUICK LAUNCH SOFTWARE

   7.1   Minimum BIOS and SCU Levels

        This version of Quick Launch requires the following
        minimum system software:

          Model: 7100R / 7105R
        Proc: Pentium Pro

```
BIOS:     V 1.00
SCU:      V 1.00
```

An SCU diskette can be created from the Quick Launch CD.
See section 2.4.

8.0 OPERATING SYSTEMS

    8.1   NetWare 3.x

        8.1.1 NetWare 3.x Single Processor Installations

        For NetWare 3.x installations on 1P systems, using either
        the Express installation or the Create Diskettes selection,
        you must run the SCU to disable the APIC & MP Table
        parameter in the Advanced Control Group. Neglecting to
        disable this parameter may result in "Spurious Interrupt"
        messages on the NetWare server console.

        This parameter will need to be reset to its default value
        (MP1.4) prior to installing any other operating system on
        this system.

    9.0   SERVER CONFIGURATION

    9.1   Power Supplies

        9.1.1 Power Supply Capacity

        Your DIGITAL Server 7100R supports up to three (3) 400 watt
        power supplies. The standard light-load configuration
        includes one 400 watt power supply.

        Certain large configurations could exceed the capacity of
        a single power supply. Two power supplies are required
        for maximum configuration. The third power supply is
        available for redundancy.

        If one power supply fails, the remaining power supplies
        share the load equally for any malfunctioning power supply.

        If you add additional hardware or memory to a one-power-
supply
        system, the system can appear as if it is running ok, but
        it could get into a marginal situation, which will cause
        intermittent failures.

        If your system is configured with one power supply and
        you wish to add additional hardware or memory, you
        should check the server's power supply capacity to
        handle these additions as follows:

            1. Go to DIGITAL's web site (www.windows.DIGITAL.com) and
                download the latest ServerWORKS Manager product.

            2. Run ServerWORKS. As it runs, it monitors hardware

items and their power requirements. ServerWORKS
Manager

will tell you if you need to order an additional
power supply.

9.1.2 "Hot Swap" Power Supplies

The power supplies are "hot-swapable" if you have procured
a redundant power supply. If you have a redundant
power supply and one malfunctions, you can remove it while
the server remains on; however, make sure you turn the
switch on this power supply OFF before removing it from
the server.

9.2   "Hot Swap" Fans

If the Operator Control Panel (OCP) indicates, for example,
"Fan 1 is not working," Fan 2 is the backup cooling source
for Fan 1. Do not remove Fan 2. If both Fan 1 and Fan 2
are not working, turn off the server until they can be
replaced. Refer to the fan label on top of the server for
the location of the primary and secondary fans and their
assigned number.

9.3   Processor Compatibility

At this time, the DIGITAL Server 7100R server uses only two
production stepping of the Pentium Pro processor. There are
no known issues about mixing them in a multiprocessor
environment.

9.4   Cache Memory

Since the manual was printed, a 1 MByte cache processor
variant is now available for the DIGITAL Server 7105R.

9.5   SCSI Bus Target ID Settings

Correction to DIGITAL Server 7100R System Reference
manual

Change SCSI ID numbers in Slots 3 and 5 in the table on page
7-5 in the System Reference manual. The table should now
read
as follows:

SCSI Bus Target ID Settings (SW1 Figure 7-1)

_____
____
_____SCSI
ID_____
      Slot 0   1   2   3   4   5   6   7
      _____
____
      1   0   0   8   8   0   0   8   8
      2   1   1   9   9   1   1   9   9

```
3       2       2       10      10      2       2       10      10
4       0       4       0       4       8       12      8       12
5       1       5       1       5       9       13      9       13
                                        --              --
```
_____

____

9.6   Acoustics Declared Values

DIGITAL Server 7100R

Acoustics - declared values per ISO 9296 and ISO 7779:
                    Sound Power Level   Sound Pressure Level
                    LwAd, B   LpAm, dBA
                            (bystander positions)
Product   Idle   Operate   Idle   Operate
FR-R5C5W-AA/X   6.6   6.6   48   48

[Current values for specific configurations are available
from
Digital representatives. 1 B = 10 dBA.]

10.0 OPTIONS

10.1 Using Four Adaptec 3940 Cards

      You may encounter a problem when trying to boot the
      ServerWORKS Quick Launch CD in a server configured with
      four Adaptec 3940-UW cards due to a compatibility issue
      with the ASPI8DOS.SYS driver. This problem will also be
      evident when trying to load any version of Novell NetWare
      from the CD. The system will hang during system startup
      when attempting to load the ASPI8DOS.SYS device driver.

      A workaround for this problem is to configure the server
      with three 3940 cards or less. The ASPI8DOS.SYS driver
      will then load properly, and the operating system
      installation will be successful.

10.2   Disable GAT Mode SCU Parameter for EISA Boards

      If you install EISA boards, verify that the GAT Mode
      SCU parameter is set to "disabled." This correctly sets
      the delay in the chip set for the medium to high activity
      of these boards.

10.3   Locking Resources

      The SCU allows you to lock "saved" resources for any
      EISA/PCI expansion board installed in the server.
      If you are adding options, make sure you check to see
      if the resources are locked. Use the Advanced Menu in
      the SCU.

      NOTE: Every time you change settings in the SCU,

you need to save them. To change a locked resource,
unlock it, make the change, then save and exit the SCU.
Reboot and then lock the resource, if desired.
You can only lock resources that have been previously saved.

10.4   Diamond Internal 56K Modem

Problem: Diamond Internal 56K Modem is not recognized.

Use the following procedure to install the modem:

1. Plug the Diamond Internal ISA 56K modem into an EISA
slot.
2. Boot into Windows NT.
3. Search for the plug & play .inf file on the
    Windows NT CD \drvlib\pnpisa\x86\pnpisa.inf.
4. Right click on the file and select install.
5. Reboot server.
6. When server comes up it will detect the modem.
7. Insert driver disk and load driver.
8. Advanced Port Settings appear.
9. Select COM3 under the "General" tab.
10. Under the "Resources" tab, under "Setting based on"
    select Basic Configuration 0004 and double check the
    Resource Settings so they read "Input/Output Range "
    "03E8 03EF" and "Interrupt Request 05". Click OK.
11. Reboot.
12. When the server comes up the modem is recognized and
    will function properly.