NEXTSTEP for Intel Processors

Title: NEC PowerMate DX2/66e
Entry Number: 1333
Last Updated: <<Date June 13 1995>>

Product Vendor:
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Keywords: NEC, PowerMate, ECU, EISA

Usage Commentary:

The NEC PowerMate Series provides an EISA bus with five EISA slots, integrated VGA for 640 x 480 two bit grayscale graphics and processor speeds of 33, 50 and 66 MHz. Supported EISA graphics adapters may be added to this system to provide higher resolution and color capabilities.

Setup and Installation:

The following ECU settings were recorded from a NEC PowerMate DX2/66e.   This system successfully installed and ran NEXTSTEP Release 3.1 for Intel Processors onto an internal 435MB Seagate SCSI hard disk using a DPT 2012, Bus Logic BT-747, Adaptec 1542B and Adaptec 1542C SCSI controllers.   An ATI Ultra Pro EISA graphics card provides the system with 1024 x 768 16 bit color.

EISA Configuration Utility Setup
```
System - NEC PowerMate DX2/66e System Board
  Shadowing Options:
     Video BIOS Shadow...                  Enabled
     System BIOS Shadow...                 Enabled


  Caching Options:
     Global Caching...                     Global Enabled
     Video BIOS Cache...                   Enabled
     System BIOS Cache...                  Enabled


  Integrated Peripheral:
     Parallel Port Address...              378h-37Fh, IRQ7 (Edge Triggered)
     Serial Port 1 Address...              3F8h-3FFh, IRQ4 (Edge Triggered)
     Serial Port 2 Address...              Disabled


  Floppy Diskette Control Options:
     Floppy Boot...                        Enable
     Floppy Write Protect...               Disable


  IDE Hard Disk Controller...              Integrated IDE Hard Disk
                                           Controller: Disabled
  Typematic Rate...                        Maximum
  Mouse Port...                            Enable
  Concurrent Mode & Decoupled Refresh...   Enable


  ---Hardware Configuration---
  Floppy Diskette Drive A...               1.44 MB- 3.5 inch
```

```
Floppy Diskette Drive B...                    Not Installed
Hard Disk Drive 0...                          Not Installed
Hard Disk Drive 1...                          Not Installed
User Defined Hard Drive Type
   Number of Cylinders...                     0
   Number of Heads...                         0
   Number of Sectors per Track...             0
   Write Precomp...                           0
   Landing Zone...                            0
Base Memory...                                640 KB
Extended Memory...                            15360
Keyboard Error Messages...                    Suppressed
Numlock state at boot...                      Numlock ON at boot
---Video Features ---
Video Card...                                 EGA or VGA

Local/ISA Bus Video...                        Local Bus Video
Monitor Display Type...                       Color monitor attached
Automatic Scan Rate Detect...                 Enable Automatic detect
```

Motherboard Jumper Settings
   Jumpers **15A1, 16L2,** and **17K3** are disabled.

Known Problems: