

NEXTSTEP for Intel Processors Tested Compatible System

Title: Base System
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Product Vendor: Duelberg Supercomputer
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Explanation of Compatibility Testing

NEXTSTEP Compatible systems are tested by third parties using a test procedure developed by NeXT. NeXT approves the use of the "NEXTSTEP Compatible" designation for these systems based on the completeness of the test results submitted by these NeXT-trained 3rd parties.

For more detailed information on the NICE program, please refer to NeXTanswers document 1903_Compatible_Systems_Testing_With_NEXTSTEP.rtf

Note: NeXT accepts no support responsibilities or liability whatsoever for any

system authorized to use the "NEXTSTEP Compatible" designation, nor does NeXT represent that their test procedures or training--even if followed exactly by the 3rd party performing the test work--are in any way complete or exhaustive. Known or unknown errors may be present in configurations which are designated as "NEXTSTEP Compatible" which could adversely affect the operation of these systems. Support for compatible systems may be provided by the PC vendor or System integrator.

Tested Components:

Duelberg Supercomputer reports testing a system configuration consisting of the following components:

Summary information only. Contact Duelberg Supercomputer for more specific configuration information

System CPU Board(s)

CPU: Cyrix 6x86-P150+ -S, 120 MHz

RAM: 32 MB, 60 ns, non-parity, plus 512K level 2 cache module

SCSI Controller(s)

Manufacturer: DPT

Model name: SmartCache III

Interface: PCI

CD-ROM Drive(s)

Manufacturer: NEC

Model name: Multispin 3xe

Interface: SCSI

Hard Drive(s)

Manufacturer: Hewlett Packard

Size: 1149 MB; 2,354,147 blocks

Manufacturer: Seagate

Size: 1010 MB; 2,069,347 blocks

Graphics Adaptor(s)

Manufacturer: Matrox

Model name: Millennium

Video RAM: 2 MB
RAM Type: WRAM
Interface: PCI

Serial Port(s)

Ports: two
UART: 16550

Parallel Port(s)

Ports: one
Chipset: SMC Super Multi-I/O on motherboard

Keyboard(s)

Manufacturer: Alps Electric Co.

Model name: MBR 101

Interface: PC/AT

of keys: 101

Mice and Other Pointing Devices

Manufacturer: Alps Electric Co.

Model name: Alps Mouse Series 500

Interface: PS/2

LAN Adaptor(s)

Manufacturer: Intel
Model name: EtherExpress 16C, PCLA 8100
Interface: ISA
Connectors: BNC*, AUI, TP.
** Adaptor tested with this connector*

Sound Card(s)

Manufacturer: Creative Labs
Model name: SoundBlaster 16 Value
Interface: ISA

Monitor(s)

Manufacturer:	Radius
Model name:	PrecisionColor Display 17
Size:	17 inches
Max resolution:	1280 x 1024, refresh rate ``variable'', according to the manual.

Note that only the specific components listed were tested.

Setup and Installation

Hardware Setup:

See above for individual setup instructions for each adaptor.

CMOS settings:

To Access:

Settings:

To Access: Press during memory test while machine powers up.

CMOS settings in the BIOS FEATURES SETUP are as follows:

Virus Warning	:	Disabled
CPU Internal Cache	:	Enabled
External Cache	:	Enabled
Quick Power On Self Test	:	Disabled
Boot Sequence	:	A,C
Swap Floppy Drive	:	Disabled
Boot Up Floppy Seek	:	Disabled
Floppy Disk Access Control	:	R/W

Boot Up NumLock Status : Off
Boot Up System Speed : High
IDE HDD Block Mode : Disabled
Typematic Rate Setting : Disabled
Typematic Rate (Chars/Sec): 6
Typematic Delay (Msec) : 250
Security Option : System
PCI/VGA Palette Snoop : Disabled
OS/2 Onboard Memory > 64M: Disabled
Video BIOS Shadow : Enabled
C8000-CBFFF Shadow : Disabled
CC000-CFFFF Shadow : Disabled
D0000-D3FFF Shadow : Disabled

D4000-D7FFF Shadow : Disabled
D8000-DBFFF Shadow : Disabled
DC000-DFFFF Shadow : Disabled

CMOS settings in the CHIPSET FEATURES SETUP are as follows:

Auto Configuration : 60ns DRAM
DRAM Read Burst Timing : x222
DRAM Write Burst Timing : x333
RAS to CAS Delay : 3T
DRAM R/W Leadoff Timing : 6T/5T
DRAM Turbo Read Leadoff : Disabled
DRAM Speculative Leadoff: Disabled
Turn-Around Insertion : Disabled

Turbo Read Pipelining : Disabled
Peer Concurrency : Enabled
PCI Streaming : Enabled
Passive Release : Enabled
Chipset Global Features : Enabled
16-bit I/O Recovery Time: 1 BUSCLK
8-bit I/O Recovery Time : 1 BUSCLK
Video BIOS Cacheable : Enabled
Memory Hole at 15M-16M: Disabled
DRAM are 64 (Not 72) bits wide [nothing follows the line]
Memory parity SERR# (NMI): Disabled
Onboard FDC Controller: Enabled
Onboard FDC Swap A & B: No Swap

Onboard Serial Port 1 : COM1, 3F8H
Onboard Serial Port 2 : COM2, 2F8H
Onboard Parallel Port : 378H/IRQ7
Parallel Port Mode : EPP
ECP DMA Select : Disabled
UART2 Use Infrared : Disabled
Onboard PCI IDE Enable : Disable
IDE 0 Master Mode : Auto
IDE 0 Slave Mode : Auto
IDE 1 Master Mode : Auto
IDE 1 Slave Mode : Auto

CMOS settings in the PNP AND PCI SETUP are as follows:

Slot 1 (RIGHT) IRQ : 11
Slot 2 IRQ : NA
Slot 3 IRQ : NA
Slot 4 (LEFT) IRQ : NA
PCI Latency Timer : 32 PCI clock
For the 7 entries for IRQ 3, 4, 5, 9, 10, 11, 15
``used by ISA'', the setting for each was No/ICU.
For the 3 entries for DMA 1, 3, 5 ``used by ISA'',
the setting
 for each was No/ICU.
ISA MEM Block BASE : No/ICU

CMOS settings in the POWER MANAGEMENT SETUP are as follows:

Power Management : User Define

All PM Timers set to disable.

Note: power management settings, when timers set,
seem to have no effect on the operating system.

CMOS settings in the STANDARD CMOS SETUP are as follows:

Time and date set

Hard Disks : Primary and secondary
master and slave type
set to NONE.

Drive A : 1.44M, 3.5 in.

Drive B : None

Floppy 3 mode : Disabled

Video : EGA/VGA
Halt On : All Errors

ECU settings (EISA-bus systems only):

n/a

Special installation instructions:

Driver settings:

Use Configure.app to load and configure the following drivers:

-----Boot drivers-----

SCSI DPTSCSIDriver

Auto Detect IDs: 0xa4001044
Class Names: EATAController EATASCSIBus
Share IRQ Levels: YES
Bus Type: PCI
Driver Version: PROJECT:drvDPT2000-11

Disk Floppy

DMA Channels: 2
Character Major: 41
I/O Ports: 0x3f2-0x3f7
Class Names: FloppyController FloppyDisk
Driver Version: PROJECT:floppyDriver-5.4
IRQ Levels: 6

Block Major: 1

Keyboard PS2Keyboard

Interface: 3

I/O Ports: 0x60-0x65

Class Names: PS2Controller PS2Keyboard

Handler ID: 0

Driver Version: PROJECT:kbdmicedrivers-16

IRQ Levels: 1

Bus PCIBus

Driver Version: PROJECT:kernbus-13

Class Names: PCIResourceDriver

Bus EISABus

Driver Version: PROJECT:kernbus-13

IRQ Levels: 2

I/O Ports: 0x00-0x0f 0x20-0x21 0x40-0x4b 0x70-0x71 0x81-0x8F 0x92-0x92

0xc0-0xcf

Class Names: EISAResourceDriver

Serial ISASerialPort, Instance0

I/O Ports: 0x3f8-0x3ff

Class Names: ISASerialPort

Bus Type: EISA

Driver Version: PROJECT:drvISASerialPort-3.1

IRQ Levels: 4

Serial ISASerialPort, Instance1

I/O Ports: 0x2f8-0x2ff

Class Names: ISASerialPort

Bus Type: EISA

Driver Version: PROJECT:drvISASerialPort-3.1

IRQ Levels: 3

-----Active drivers-----

Parallel ParallelPort

Pre-Load: RemovePPDev

I/O Ports: 0x378-0x37f

Port Count: 1

Driver Version: PROJECT:paralleldrivers-10

IRQ Levels: 7

Minor Device Number: 0

Network EtherExpress16

I/O Ports: 0x300-0x30F

Driver Version: PROJECT:enetdrivers-13

IRQ Levels: 10

Connector: BNC

Display MatroxMGA2064WDisplayDriver

Memory Maps: 0x7c000000-0x7cffffff 0xa0000-0xbffff 0xc0000-0xcffff

Display Mode: Height: 864 Width: 1152 Refresh: 72Hz ColorSpace: RGB:444/16

Auto Detect IDs: 0x0519102B

I/O Ports: 0x3b0-0x3df 0x102-0x102 0x46e8-0x46e8

Bus Type: PCI

Driver Version: PROJECT:drvMatroxMGA2064W-1

VGA Memory Maps: 0xa0000-0xbffff 0xc0000-0xcffff

Pointing Device PS2Mouse

Inverted: No

Resolution: 110

Force Detection: Yes

Class Names: PS2Mouse

Driver Version: PROJECT:drvPS2Keyboard-2

IRQ Levels: 12

Audio SoundBlaster16

DMA Channels: 1 5

I/O Ports: 0x0220-0x0233 0x330-0x331 0x388-0x389

LS Input Gain: 3

LS Output Gain: 3

Driver Version: PROJECT:drvSB16Sound-9

IRQ Levels: 5

Serial PortServer

Class Names: PDPpseudo PortServer

Maximum Sessions: 16

Port Count: 2

Driver Version: PROJECT:drvPortServer-6

Other NEXTIME_Sound

Driver Version: PROJECT:NEXTIME_Sound-3

Known Problems

See Also: (None)