NEXTSTEP for Intel Processors

Title: Hewlett Packard Vectra 486 66XM
Entry Number: 1464
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Keywords: HP, Hewlett Packard, S3, 928, ISA

Explanation of Certification
To ensure a high level of compatibility and support for PC-compatible system configurations, NeXT has developed a process for comprehensively testing specific configurations for compatibility with NEXTSTEP for Intel Processors.

In this process, the NeXT Quality Assurance group subjects each specific system configuration to a suite of compatibility tests. If a system configuration passes the test suite, it is considered *certified*. Only the manufacturing revisions of a system unit and its add-on cards listed in the NeXTAnswer are considered certified. Once a configuration is

certified, NeXT creates a detailed NeXTanswers document (like this one) that lists the specific configuration tested, plus any setup information required to configure the system for NEXTSTEP.

Because of the detailed information that's available on certified configurations, NeXT delivers the best technical support on them. Keep in mind that a system platform might be loosely referred to as "certified" if it has one or more certified configurations, but all the benefits of certification are available only to users of the specific certified configurations.

Note: NeXT certification does not necessarily mean a configuration is error-free. Certified systems may contain detected or undetected compatibility problems.

Overview:
The HP Vectra 486/66XM includes a Intel 486 processor at 66Mhz and an ISA bus with four slots. It provides up to 1280 x 1024 in 8 bit grayscale and 1024 x 768 in 16 bit color via an integrated, localbus S3-928 graphics adapter.

Certified Components:

NeXT has certified the following components(*):

System CPU Board(s)
    Hewlett Packard 486/66XM
CPU Type(s) & Speed(s)
    66MHz Intel 80486
System RAM
    16MB minimum (color), 8MB minimum (grayscale)
IDE Controller(s)
    Integrated
SCSI Controller(s)
    Adaptec 1542CF
SCSI CD-ROM Drive(s)
    HP CD-ROM model # D2886-60001 (Internal)
Hard Drive(s)
    431MB IDE - Seagate Model ST3550A
Floppy Drive(s)
    Integrated 1.44MB 3.5"
Graphics Adapter(s)
    Integrated S3 928 with 2MB VRAM

Serial Port(s)
    Integrated, COM1,COM2
Parallel Port(s)
    Integrated, LPT2
Keyboard(s)
    HP, PS/2 interface
Mice and Other Pointing Devices
    HP, PS/2 interface
LAN Adapter(s)
    Intel EtherExpress 16
Sound Card(s)
    ProAudio Spectrum 16
Monitor(s)
    HP 21" color display - Ultra VGA 1600 model #D2886-60001

(*) Note that only the firmware and hardware revision numbers specified in the "Technical Specification" section below are certified. Occasionally vendors may modify firmware or hardware characteristics without changing model numbers. Only systems with the specified firmware and hardware revision(s) have been certified.

Setup and Installation:

Technical Specification of Certified System

The following information technically defines the specific configuration NeXT certifies.

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Tested under NEXTSTEP for Intel Processors Release 3.2
Hardware Configuration Information

Hewlett Packard Vectra 486/66XM
    Type(s): Desktop
    Model Number(s): Vectra 486/66XM

System CPU Board(s)
    Hewlett Packard Vectra 486/66XM
        BIOS Version: Hewlett Packard
        BIOS Revision Number: W.04.01

CPU Type(s) & Speed(s)
```

66MHz Intel 80486

System RAM
    16MB minimum (color), 8MB minimum (grayscale)

IDE Controller(s)
    Integrated

SCSI Controller(s)
    Adaptec 1542CF
        Interface: ISA adapter
        BIOS Revision Number: 1.02
        Firmware Revision Number(s):
            534001-00 E (slot U5)
            534201-00 E (slot U15)
            533600-01 F (surface mount U10)

SCSI CD-ROM Drive(s)
    HP CD-ROM (Internal)
        Model Number: D2886-60001

Hard Drive(s)
    431MB IDE - Seagate model #ST3550A

Floppy Drive(s)
    Integrated 1.44MB 3.5"

Graphics Adapter(s)
    HP Localbus S3
        Interface: Integrated
        BIOS Revision Number: HP XM VESA VGA BIOS Version 1.00.002
        Chipset: S3 928
        RAMDAC: Brooktree Bt9485KPJ135
        VRAM: 2MB

Serial Port(s)
    Integrated, COM1,COM2

Parallel Port(s)
    Integrated, LPT2

Keyboard(s)
    HP, PS/2 interface
        Model Number: C1405B #ABA

Mice and Other Pointing Devices
    HP, PS/2 interface
        Model Number: C1413A

LAN Adapter(s)
    Intel EtherExpress 16 **(*)**
        Interface: ISA adapter
        Connectors: BNC, AUI

Sound Card(s)
    ProAudio Spectrum 16

Monitor(s)
    HP 21" color - Ultra VGA 1600
        Model Number: D1199A ABA

(*) NeXT added this item to the configuration to complete certification.

Known Problems:
Releases 3.1 and 3.2:

7   There is a known incompatibility with the firmware found in Seagate IDE drive model number ST3550a when used with NEXTSTEP 3.1 and 3.2. This error manifests during installation when a sequence of IDE error messages occur and installation stops.   The error "Disk initialization failed" is then reported.

A firmware upgrade to fix this problem is available through Seagate.   Call 408-438-8222 to find the location of the nearest sales office.   Model ST3550a requires firmware update 9581..

Systems purchased from Hewlett Packard with these hard drive models are supported directly by Hewlett Packard.   Contact their support organizations for assistance.

Release 3.2:

7   Support for the on-board Ethernet capabilities of this system is provided by a custom LAN driver. This driver is available from NeXTanswers as 1623_HPVectra_XM_XP_LANDriver.pkg.compressed. A ReadMe file is available as NeXTanswer 1624_HPVectra_XM_XP_LANDriver.ReadMe.rtf.

See Also:
1624_HPVectra_XM_XP_LANDriver.ReadMe.rtf