

NEXTSTEP for Intel Processors Release 3.3

Display Driver Overview

Driver: ATI Mach32

Driver Overview: NeXTanswer #1817

Last Update: March 25, 1996

Availability Information

Newer Released Driver in NeXTanswers: Yes, Version 3.30, as NeXTanswer #1833

Newer Beta Driver in NeXTanswers: No, Version 0.00, as NeXTanswer #

Driver Name / Installer .pkg: ATIMach32DisplayDriver

Driver Type: Display

Driver Scope: Generic-Chipset

Supported Components: AT&T ATT20C491 RAMDAC, ATI 68800 (Mach32), ATI 68830 RAMDAC, ATI 68875 RAMDAC, Brooktree Bt481 RAMDAC, Brooktree Bt485 RAMDAC

PC Bus / Interface Supported by Driver*: EISA, Integrated, PCI, VL-Bus

General Overview notes: Generic Driver for the ATI Mach32 (Also known as 68800) Rev 3, Rev 6 and AX.

Supported Products / Add-on Adapters:

ATI Graphics Ultra Pro - EISA (with 2MB VRAM)

ATI Graphics Ultra Pro - PCI (with 2MB VRAM)

ATI Graphics Ultra Pro - VL-Bus (with 2MB VRAM)

ATI Graphics Ultra Pro XLR - VL-Bus (with 2MB DRAM) - not tested, but should work

ATI Graphics Ultra Pro XLR - PCI (with 2MB DRAM) - not tested, but should work

Supported Products / Systems (ie integrated into PC System):

Intel GX/Pro (Custom LocalBus, onboard ATI, TI 34075 RAMDAC)

Data General Dasher DE2 (Custom LocalBus, TI 34075 RAMDAC)

AST Premmia 4D (Custom LocalBus, onboard ATI, BT 481 RAMDAC)

Gateway V Series (VESA LocalBus, ATI 68875 RAMDAC)

Special Features of Driver / Driver Notes:

Display Driver Details

Supported Connectors: 15-pin High Density (VGA)

Access Mode: Linear Framebuffer

Adapter Memory: 1MB DRAM, 1MB VRAM, 2MB DRAM, 2MB VRAM

Display Modes (Number in () after resolution indicates frame buffer size required)

32 Bit Color Modes*:

16 Bit Color Modes*:

1024x768 (2MB+), 1120x832 (2MB+), 800x600 (1MB+)

8 Bit Color / Greyscale Modes*:

1024x768 (1MB+), 1120x832 (1MB+), 1280x1024 (2MB+), 800x600 (1MB+)

Known Problems

NeXT SQA has experienced some display problems with the ATI Mach32 VL-Bus adapter on machines using the OPTi chip-set. One of the problems is the machine will hang in any of the 8-bit greyscale display modes. However, machines without this chip-set behave normally.

NeXT SQA has witnessed some video noise in 800x600 display modes for adapters with the 68003 Mach32 chip.

Driver Version Notes

Future Planning

Future / Update Planning:
Reason for New Driver / Update:
New Driver / Update Timeframe:

New Driver / Update Description:

Note: Information contained in the "Future Planning" section of this document does not constitute a commitment on the part of NeXT to complete the planned development work.

* - Indicates information that is inclusive of the entire capability of this driver. Not all devices supported by this driver may include all features listed. Check any available NeXTanswers and the hardware manual for the device for additional information.

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