

# NEXTSTEP for Intel Processors

**Title:** Dell DG/X

**Entry Number:** 1154

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## **Product Vendor:**

Dell Computer Corporation

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**Keywords:** Dell, Jaws, Localbus

## **Overview:**

The Dell DG/X provides 1120 x 832 in 16 bit color under NEXTSTEP. NEXTSTEP also supports SVGA on the Dell DG/X at 1024 x 768.

The Dell DG/X should be compatible with NeXT color monitors. This compatibility is not guaranteed by NeXT.

## Setup and Installation:

The Dell DG/X may come with two 1/4 height floppy drives in a single unit. Only one floppy drive should be enabled, and it should be the 3 1/2" set to be drive A in both the CMOS setup and the EISA Configuration Utility (ECU).

The following ECU settings were recorded by the Quality Assurance Group from a Dell DG/X known to have successfully installed and run NEXTSTEP Release 3.1 for Intel Processors. The system was running off of a SCSI hard disk with a DPT 2012 SCSI controller.

### EISA Configuration Utility Setup

```
System - Dell Powerline (TM) Workstation 450 DE/2 (TM) System Board
Memory
  SIMM Memory 16MB
  Extended Memory 15360 KB
  Board Memory : 640 KB
  Base Memory : 640 KB
Fast Video : Cached
CPU Options
  486 Cache : On
  CPU Speed : 50 MHz
Boot Options
  Primary Display : VGA/EGA
  Keyboard : Installed
  Num Lock : On
  Reset Button : Enabled
  Speaker Volume : High
  SmartVu : System Messages
  Hard Disk Autosense : Off
  Boot Sequence : Diskette First
  Password Entry : Before Boot
Password : Not Enabled
Integrated Mouse : Enabled
Integrated VGA : Graphics : Color or Mon without retrace
```

Integrated Hard Disk Interface : Auto

Hard Drives

- Drive 0 : Not Installed
- Drive 1 : Not Installed

Integrated Serial Interface

- Serial Port 1 : Auto
- Serial Port 2 : Auto

Integrated Parallel Port Interface : Auto

EXP4 - DPT SCSI Host Bus Adapter (PM 2012B2/9X) - Banyan Vines

HARDWARE CONFIGURATION

Hardware Mapping

- IO Ports : Secondary/Disabled
- Interrupt Number : 15 Edge
- Floppy Drive : Disabled
- Option ROM : Enabled @ D8000h
- HBA SCSI ID : 7

WD1003 EMULATION MAPPINGS

- Drive 0
  - SCSI ID : Disabled
  - SCSI LUN : 0
- Drive 1
  - SCSI ID : Disabled
  - SCSI LUN : 0

CONTROLLER PARAMETERS

SCSI Parameters

- Maximum Transfer Rate : 10 MB/s
- External Cable Detection : Yes - 5 MB/s
- Command Queuing : Enabled
- Command Timeout : Enabled - 5 sec

Cache Parameters

- Cache : Enabled (Write-Back)
- Max. Percentage Dirty : 80%
- Max. Percentage Look-Ahead : 80%
- Look-Ahead : Enabled (8 blocks)
- Cache Threshold : 16 blocks
- Caching Parameters : Use Values Stored on Device

!DPTA402.CGF Version 005D

## EXP6 - Dell DGX Video Subsystem

Frame Buffer Location Cacheability : 20000000h, cached

Video Interrupt Selection : IRQ2, Disable

Color Mode : Normal

## Known Problems:

### Releases 3.1 and 3.2:

- The Ultrascan monitor shipped with the Dell DG/X and the NEC 5FG both reportedly have some difficulty displaying 1120 x 832 video correctly. This can result in fuzziness and faded colors. The NEC 6FG does not apparently suffer from this problem.
- Some early DG/X systems have a single jumper on the Jaws Graphics board that will when jumped incorrectly prevent the cursor from being movable by the mouse while running NEXTSTEP.
- One DG/X system the Quality Assurance Group tested demonstrated sensitivity to fast SCSI transfer rates. This manifested as multiple read errors during the installation process when installing from either a DPT 2012 or Adaptec 1542C SCSI adapter onto a Seagate SCSI hard disk. This problem was not observed on other DG/X systems.