NEXTSTEP for Intel Processors

Title: Epson Progression
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Product Vendor:
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Overview:

The Epson Progression with two megabytes of video RAM displays 1024 x 768 in 16 bit color under NEXTSTEP. An Epson Progression with one megabyte of video RAM displays

800 x 600 in 16 bit color under NEXTSTEP. Both models incorporate the Chips & Technologies Wingine video chipset and provide localbus comparable video performance.

Release 3.1:
Update 1 of the Epson Wingine graphics driver is now available from NeXTanswers via anonymous FTP (ftp.next.com) or email (nextanswers@next.com). Request document numbers 1212, "1212_EpsonWingineDriver.pkg.compressed," and 1211, "1211_EpsonWingineDriver.ReadMe.rtf" This update provides enhanced functionality for the Epson Progression and supports the 1120 x 832 16 bit color display mode supported by the Epson Progression NX (*Only the Epson Progression NX supports the 1120 x 832 16 bit color display mode*.).   This driver is included on the NEXTSTEP Release 3.2 CD.

Setup and Installation:
Use the ROM setup program to configure your Progression. This program may be accessed by pressing $<f2>$ early in the boot process when prompted.

The Quality Assurance Group successfully installed NEXTSTEP Release 3.1 onto an Epson Progression with the ROM configuration detailed below. This system was running off of a SCSI hard disk.

```
ROM Configuration Utility Setup
SYSTEM SETUP Ver.1.11.44 English
[Installed Memory]
    Base memory : 0000640 KB
    Extended memory : 0035840 KB
[Boot Options]
    Auto speed : Disabled
    Software speed change : Enabled
    Power-on low speed : Disabled
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    Fast boot option : Disabled
    On-board video BIOS located at : C000h
[Keyboard Options]
    Keyboard function : Disabled
    Keyboard delay : N/A
    Keyboard speed : N/A
    Num Lock status after boot : Num Lock ON
[Installed Equipment]
    Number of diskette drives : 1
    Video type : EGA or VGA
    Math Coprocessor : Yes
[I/O Ports]
    Primary parallel port [LPT1] : enabled
    Primary serial port [COM1] : enabled
    Speaker : enabled
    Internal diskette drive controller : enabled
    Internal hard disk drive controller : disabled
[Port Configuration]
    Primary parallel I/O address : 378h - LPT1
    Primary serial I/O address : 2f8h - COM1
[Network Server and Password Status]
    Network server mode : Not installed
    Password security : Not installed
    Password : Not installed
[Diskette Drives]
    Diskette drive A : 1.4 MB 3.5"
    Diskette drive B : Not installed
[Hard Drives]
    Hard disk 1 : Not installed
    Hard disk 2 : Not installed
```

```
[High Vertical Refresh Rate Setup]
    640X480 Vertical Refresh Rate : 60Hz
    800X600 Vertical Refresh Rate : 56Hz
    1024X768 Vertical Refresh Rate : 60Hz
[System Defined Cache Control Areas]
    A0000h-AFFFFh caching : Disabled
    B0000h-BFFFFh caching : Disabled
    C0000h-CFFFFh caching : Enabled
    D0000h-DFFFFh caching : Disabled
    E0000h-EFFFFh caching : Disabled
    F0000h-FFFFFh caching : Enabled
[User Defined non-cached Areas]
    1st User defined non-cached low address : 0000000h
    1st User defined non-cached high address : 0000000h
    2nd User defined non-cached low address : 0000000h
    2nd User defined non-cached high address : 0000000h
[Cache Test and Use Control]
    POD internal cache test : Enabled
    Internal cache : Enabled
[Shadow RAM Areas]
    C0000h-C3FFFh : Disabled
    C4000h-C7FFFh : Disabled
    C8000h-CBFFFh : Disabled
    CC000h-CFFFFh : Disabled
    D0000h-D3FFFh : Disabled
    D4000h-D7FFFh : Disabled
    D8000h-DBFFFh : Disabled
    DC000h-DFFFFh : Disabled
    E0000h-E3FFFh : Disabled
    E4000h-E7FFFh : Disabled
```

```
E8000h-EBFFFh : Disabled
EC000h-EFFFFh : Disabled
```

Known Problems:

· If a serious hardware failure is suspected, reseat the CPU card (which sits upright towards the front of the box). The CPU card has a tendency to unseat itself.

· On some early Epson Progression systems the line
`"OLD_EPSON"="YES";`
must be appended to the Epson Wingine Graphics Driver Instance 0 table
(`/usr/Devices/EpsonWingine.config/Instance0.table`) in order to display video.

If a user specifies the Epson Wingine driver on a system that requires this configuration modification no video will be displayed after the WindowServer starts. Normally a gray background and the mouse cursor are displayed when the WindowServer launches.