

# NEXTSTEP for Intel Processors

**Title:** Epson Progression

**Entry Number:** 1155

**Last Updated:** <<Date June 13 1995>>

**Product Vendor:**

Epson Portland Inc.

Computer Products Division

1880 SW Merlo Drive

Beaverton, Oregon 97006

+1 (503) 649 1160 phone

+1 (800) 873 7766 USA toll free technical support

+1 (310) 782 0770 international technical support

+1 (503) 690 5454 fax

**Keywords:** Epson, Progression, Wingine

**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

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, reseal 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.