

Entry Number:
Title: **The Epson Progression**
Entry Date: **12 April 1993**

Product Vendor: **Epson**
Vendor Contact Information:

Hardware Platform: **Intel Processor Family**
Reported in Software Version: **NEXTSTEP Release 3.1**
Keywords: **Epson, Progression, Wingine**

Usage Commentary:

The Epson Progression NX 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.

Setup and Installation:

Use the ROM setup program to configure your Progression NX. 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 NX 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 : 3BCh - LPT1
Primary serial I/O address : 3f8h - 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 : Enabled

C4000h-C7FFFh : Enabled

C8000h-CBFFFh : Enabled

CC000h-CFFFFh : Enabled

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.
- The Pre-release 1 video driver for the Epson Progression may display fuzzy video, sync incorrectly and display the right most row of pixels on the left side of the screen. The NEXTSTEP Release 3.1 video driver fixes these problems.
- 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.