

Entry Number:
Title: **The AST Power Premium**
Entry Date: **20 May 1993**

Product Vendor: **AST**
Vendor Contact Information:

Hardware Platform: **Intel Processor Family**
Reported in Software Version: **NeXTSTEP Release 3.1**
Keywords: **AST, Power, Premium**

Usage Commentary:

The AST Power Premium provides integrated VGA and EISA expandability.

Setup and Installation:

The Quality Assurance Group successfully installed NEXSTEP Release 3.1 onto an AST Power Premium with the configuration outlined below. There are two separate means whereby this system may be configured. These are the ROM setup utility and the EISA Configuration Utility. Some configuration values may be changed in both utilities.

To invoke the ROM setup utility press <ctrl> <alt> <esc> early in the boot process. The ROM setup utility allows you to change the time and date as well as access a menu of advanced options. You should only be concerned with the advanced options settings during the installation process.

ROM Configuration Settings

Advanced Options

 Floppy and Boot

 Floppy Drives

 Floppy-Disk Adapter : Integrated

Floppy Disk A : 1.44MB 3.5"

Floppy Disk B : None

Boot Options

Boot Device : Try Floppy First

Keyboard Error : Ignore

NumLock : On at Boot

Default Speed : High

Hard Drives

Hard-Disk Adapter : Add-in

First Hard-Disk Type : None

Heads :

Cylinders :

Sectors Per Track :

Write Precomp :

Landing Zone :

Second Hard-Disk Type : None

Heads :

Cylinders :

Sectors Per Track :

Write Precomp :

Landing Zone :

Video and Memory

Video

Primary Video : Color

Video Adapter : EGA-VGA

800 x 600 Mode : 72 Hz non-interlaced

1024 x 768 Mode : 72 Hz non-interlaced

Memory

Conventional Memory : 640 KB

Extended Memory : 15616 KB (15.25 MB)

Reserved Memory : 128 KB

Cache Memory : Enable

Limit Memory Access to 16 MB : Disable

Coprocessor and Ports

Coprocessor

Math Copr. Type : None

Ports

Parallel Port : 378h, IRQ 7

Ports

Serial Ports : Port 1=3F8h, 2 disabled

Mouse

Integrated Mouse Port : Enabled

Security

Password

User Security : None

Password :

Verify :

Update BIOS

Revision

BIOS : 1.06

Keyboard Controller : 1.02

BIOS Loader : 1.00

The following settings were recorded from the EISA Configuration Utility on this system. This system was running NEXTSTEP off of a SCSI hard disk using the integrated VGA for the display.

EISA Configuration Utility Settings

System AST Power Premium System Board

Parallel Port Configuration

Parallel Port : 378h, IRQ 7

Serial Ports : Port 1=3F8h, 2 disabled

Floppy-Disk Adapter : Integrated

Floppy-Disk Type

Floppy Disk A : 1.44 MB 3.5 "

Floppy Disk B : None

Hard-Disk Adapter : Add-in

Hard-Disk Type

First Hard-Disk Type : None

Second Hard-Disk Type : None

User Defined Type for First Hard-Disk

Number of Heads (1--16) : 1

Number of Cylinders (1--1024) : 989

Number of Sectors Per Track (1--63) : 35

Write Precompensation (1--1023) : 988
Landing Zone (1--1024) : 1
User Defined Type for Second Hard-Disk
Number of Heads (1--16) :
Number of Cylinders (1--1024) :
Number of Sectors Per Track (1--63) :
Write Precompensation (1--1023) :
Landing Zone (1--1024) :
Video Adapter : EGA-VGA
Integrated Mouse Port : Enable
CPU - Type : 80486 DX2, Speed 50MHz
Math Coprocessor Type : None
Memory Configuration
 Conventional Memory : 640 KB
 Processor Board Memory : 16M
 Limit Access to 16 MB : Disable
 Cache Memory : Enable
Integrated VGA Video Output
 800 x 600 Mode : 72 Hz non-interlaced
 1024 x 768 Mode : 72 Hz non-interlaced
Slot 3 - AST Processor Board : Auto Added
Embedded - AST Integrated VGA : Auto Added
 Integrated VGA - Enable : Color Display

Known Problems:

- During installation, the NEXTSTEP boot floppy should be ejected after the kernel has been loaded and messages are displayed describing the various probes the kernel is performing. The floppy drive activity light will be off at this point. If the floppy ejected the system will hang as the floppy drive is probed.