

NEXTSTEP for Intel Processors

Title: AST Power Premium

Entry Number: 1123

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Product Vendor:

AST

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Keywords: AST, Power, Premium

Overview:

The AST Power Premium provides integrated VGA with 640 x 480 2 bit grayscale and EISA expandability.

Setup and Installation:

The Quality Assurance Group successfully installed NEXTSTEP 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
Coprocesor and Ports
Coprocesor
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

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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
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Known Problems:

Releases 3.1:

- 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.