

# System Release Notes

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## ***Server ES1200 System Release Notes***

These System Release Notes provide the latest available release information.

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## Introduction

These System Release Notes cover the following topics:

- General
- Advisories
- Documentation Errata.

## General

The following general comments apply:

- Versions of the Network Operating Systems tested and recommended are:
  - Windows NT 4.0 Service Pack 3
  - Intra NetWare 4.11 Support Pack 4
  - SCO Open Server 5.04.
- The current BIOS is:

**Version 1.00.01.ACE07**
- If your server has SCSI hard drives connected to the on-board 7880 SCSI controller, you cannot boot the server from the IDE CD-ROM if the CD is a floppy image bootable CD.
- The system does not support controller cards incorporating a PCI bridge chip which does not conform to the specification for PCI version 2.1. For example, the SMC8434BT EtherPower™ Dual channel LAN adapter board.
- **Note:** If you received system diskettes with your server, these diskettes provide the latest available system utilities information. Use these diskettes instead of running the system utilities from the EXPRESSBUILDER CD-ROM.

## Advisories

This section contains advisories on the BIOS Setup Utility, Resource Configuration Utility (RCU), NetWare, and SCO.

### BIOS Setup Utility

The following advisories apply when using the BIOS Setup Utility:

- If you change an IDE device (i.e., CD-ROM) from a slave to a master device, the BIOS device auto detect leaves the previous master device options ( i.e., Multi-Sector Transfers, LBA Mode Control, 32 BIT I/O. and Transfer Mode ) set for the CD-ROM. When this occurs, enter Setup and manually change these options to the defaults outlined in the *ES1200 User's Guide*.
- Pressing F2 to enter Setup after the "Press <F2> to enter SETUP" message during boot time is only active while the system BIOS is loading, not while the adapter BIOS (i.e., Adaptec or Mylex) is loading.
- Setup identifies the IDE tape drive as a CD-ROM. To determine the IDE channel connection for the IDE tape, see the *ES1200 User's Guide*.
- If you have disk drives less than 8 GB and previously formatted in Extended CHS you must select the "Enabled (CHS)" setting under the IDE Adapter parameter "LBA Mode Control". All new drives should use LBA Mode Control "Enabled".
- The following changes (highlighted) apply to the BIOS Setup Configuration settings shown in Table 4-5 of the *ES1200 User's Guide* (101924).

Table 4-5. BIOS Setup Configurations

MENU PARAMETER NAME	NORMAL SETTING OR DISPLAY ONLY	YOUR CONFIGURATION
<b>MAIN MENU</b>		
<b>System Time</b> Enter current time (hour, minutes, seconds on 24 hour clock).	Current Time	
<b>System Date</b> Enter current date.	Current Date	
<b>Language</b> Indicates the language used in this bios.	English	
<b>Diskette A:</b> <sup>1</sup> Use +/- to change values; indicates the type of diskette drive installed.	1.44MB, 3 1/2"	
<b>Diskette B:</b> <sup>1</sup> Use +/- to change values; indicates the type of diskette drive installed.	Not Installed	
<b>IDE Adapter 0 Master</b> Press ENTER for menu.	None	
Autotype Fixed Disk	Press Enter	
Type Cylinders Heads Sectors/Track Write Precomp	Current IDE HDD Auto or User	
Multi-Sector Transfers	16 Sectors <sup>2</sup>	
LBA Mode Control	Enabled <sup>2,3</sup>	
32 BIT I/O	Enabled	
Transfer Mode	Fast PIO 4 <sup>7</sup>	
<b>IDE Adapter 0 Slave</b> Press ENTER for menu.	None	
Autotype Fixed Disk	Press Enter	
Type Cylinders Heads Sectors/Track Write Precomp	Current IDE CD-ROM	
Multi-Sector Transfers	Disabled <sup>2</sup>	
LBA Mode Control	Disabled <sup>2</sup>	
32 BIT I/O	Enabled	

<sup>1</sup> This parameter will be overwritten by the RCU setting.

<sup>2</sup> This parameter should be enabled for HDD and disabled for other IDE devices.

<sup>3</sup> In this parameter the "Enabled (CHS)" setting must be selected for disk drives less than 8 GB and previously formatted in Extended CHS.

<sup>7</sup> This parameter should be "Fast PIO 4" for hard disk drives and "Standard" for other IDE devices.

Table 4-5. BIOS Setup Configurations (Continued)

MENU PARAMETER NAME	NORMAL SETTING OR DISPLAY ONLY	YOUR CONFIGURATION
Transfer Mode	Standard <sup>7</sup>	
<b>IDE Adapter 1 Master</b> Press ENTER for menu.	None	
Autotype Fixed Disk	Press Enter	
Type Cylinders Heads Sectors/Track Write Precomp	Current IDE device	
Multi-Sector Transfers	Disabled <sup>2</sup>	
LBA Mode Control	Disabled <sup>3</sup>	
32 BIT I/O	Enabled	
Transfer Mode	Standard <sup>7</sup>	
<b>IDE Adapter 1 Slave</b> Press ENTER for menu.	None	
Autotype Fixed Disk	Press Enter	
Type Cylinders Heads Sectors/Track Write Precomp	Current IDE device	
Multi-Sector Transfers	Disabled <sup>2</sup>	
LBA Mode Control	Disabled <sup>3</sup>	
32 BIT I/O	Enabled	
Transfer Mode	Standard <sup>7</sup>	
<b>Video System</b>	VGA	
<b>Memory Cache</b> Press ENTER for menu.		
Memory Cache	Enabled	
Cache System BIOS Area	Write Protect	
Cache Video BIOS Area	Write Protect	
Cache Base 0 - 512K	Write Back	
Cache Base 512K - 640K	Write Back	
Cache Extended Memory Area	Write Back	
Cache Memory Regions <sup>1</sup>		

<sup>1</sup> This parameter will be overwritten by the RCU setting.

<sup>2</sup> This parameter should be enabled for HDD and disabled for other IDE devices.

<sup>3</sup> In this parameter the “Enabled (CHS)” setting must be selected for disk drives less than 8 GB and previously formatted in Extended CHS.

<sup>7</sup> This parameter should be “Fast PIO 4” for hard disk drives and ‘Standard’ for other IDE devices.

Table 4-5. BIOS Setup Configurations (Continued)

MENU PARAMETER NAME	DEFAULT SETTING OR DISPLAY ONLY	YOUR CONFIGURATION
Cache C800-CBFF	Uncached	
Cache CC00-CFFF	Uncached	
Cache D000-D3FF	Uncached	
Cache D400-D7FF	Uncached	
Cache D800-DBFF	Uncached	
Cache DC00-DFFF	Uncached	
<b>Memory Shadow</b> Press ENTER for menu.		
System Shadow	Enabled	
Video Shadow	Enabled	
Regions with Legacy Expansion ROMs <sup>1</sup>		
<b>Boot Sequence</b> Press ENTER for menu.	A: then C:	
Boot Sequence	A: then C:	
SETUP Prompt	Enabled	
POST Errors	Enabled	
Floppy Check	Enabled	
<b>Numlock</b> Press ENTER for menu.	On	
Numlock	On	
Key Click	Disabled	
Key Board auto-repeat rate	30/sec	
Key Board auto-repeat delay	½ sec	
<b>Base Memory:</b>	640 KB	
<b>Extended Memory:</b>	Current memory	
<b>ADVANCED MENU</b>		
<b>Integrated Peripherals</b> Press ENTER for menu.		
Serial Port 1 <sup>1</sup>	3F8, IRQ 4	
Serial Port 2 <sup>1</sup>	2F8, IRQ 3	
Parallel Port <sup>1</sup>	378, IRQ 7	

<sup>1</sup> This parameter will be overwritten by the RCU setting.

Table 4-5. BIOS Setup Configurations (Continued)

MENU PARAMETER NAME	DEFAULT SETTING OR DISPLAY ONLY	YOUR CONFIGURATION
Parallel Mode	Bi-directional	
Diskette Controller	Enabled	
Local Bus IDE adapter	Both	
Mouse	Enabled	
<b>Memory Reconfiguration</b> Press ENTER for menu.		
Memory Reconfiguration	Enabled	
DIMM J24 - Row #1 Status	Normal	
Row #2 Status <sup>4</sup>	None	
DIMM J23 - Row #3 Status	None	
Row #4 Status <sup>4</sup>	None	
DIMM J22 - Row #5 Status	None	
Row #6 Status <sup>4</sup>	None	
DIMM J21 - Row #7 Status	None	
Row #8 Status <sup>4</sup>	None	
Memory Row Errors Clear	Press ENTER	
Memory Configuration Message	Enabled	
Memory Warning on POST Error	Enabled	
<b>SMB Configuration</b> Press ENTER for menu.		
ITF Monitoring Observation	POST-END	
Boot Monitoring	Disabled	
Boot Monitoring timeout period	5	
<b>Advanced Chipset Control</b> Press ENTER for menu.		
DRAM Speed	60ns	
DMA Aliasing	Enabled	
8-bit I/O Recovery	4.5	
16 bit I/O Recovery	4.5	
<b>Plug &amp; Play O/S</b>	No	

<sup>4</sup> Used for double-sided DIMMs only.



Table 4-5. BIOS Setup Configurations (Continued)

MENU PARAMETER NAME	DEFAULT SETTING OR DISPLAY ONLY	YOUR CONFIGURATION
Reset Configuration Data	No	
Pentium II BIOS Update	Enabled	
<b>SECURITY MENU</b>		
Supervisor Password is:	Disabled	
User Password is:	Disabled	
<b>Set Supervisor Password</b> <sup>5</sup>	Press ENTER	
<b>Set User Password</b>	Press ENTER	
<b>Password on boot</b> <sup>6</sup>	Disabled	
<b>Diskette Write</b> <sup>6</sup>	Normal	
<b>Diskette access</b> <sup>6</sup>	Supervisor	
<b>System backup reminder</b>	Disabled	
<b>Execute User ROM</b>	Disabled	
<b>Allow SCSI Select</b>	Enabled	
<b>SERVER MENU</b>		
<b>Thermal Sensor</b> Press ENTER for menu.		
Thermal Sensor	Enabled	
Upper Limit	85	
Lower Limit	7	
<b>ESM ASIC Interrupt</b>	IRQ 13	
<b>SMI</b>	Enabled	
<b>Event Log Initialization</b>	Disabled	
<b>Clear Event Log</b>	No	
<b>Console Redirect Port</b>	Disabled	

<sup>5</sup> Enabling supervisor password requires a password for entering SETUP.

<sup>6</sup> These parameters require prior setting of supervisor password.

## Resource Configuration Utility (RCU)

The following advisories apply when using the Resource Configuration Utility (RCU):

- Do not use the RCU to allow the Embedded - PCI SCSI Controller to share its IRQ.
- The RCU cannot lock the resources on certain PCI adapter boards (i.e., 3COM 3C905, Mylex DAC960PG, and Intel 10/100). The SMC adapter boards sold with the server operate correctly.

## NetWare

The following advisories apply when using NetWare:

- When installing NetWare 4.11 on servers that use 4 GB SCSI or 4 or 6 GB IDE hard drives, you might get a message that there is no DOS partition set to active. This message can be ignored.
- IDE tape drives are not supported.

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## SCO

The following advisories apply when installing SCO Open Server:

### ■ Installing an IDE Tape Drive (ATAPI)

The following shows the installation of an IDE tape drive (ATAPI):

1. Make sure there are no users on the system. (Go into single user mode if you need to.)
2. From a # prompt type: `mkdev tape`. Press ENTER.
3. Choose '1' - Configure SCSI tape drive.
4. Choose '1' - Install a SCSI tape drive.
5. Enter the prefix of the host adapter as: `wd`.
6. System will prompt for which `wd` host adapter:
  - 0 = 1f0, 14 (primary)
  - 1 = 170, 15 (secondary)
7. At 'What SCSI bus is this device attached to?', use default of 0.
8. At 'What is the target ID?', use 0 = master or 1 = slave.
9. At 'What is the LUN?', use default of 0.
10. At 'Enter vendor ID string...', press ENTER for default.
11. At 'Enter SCSI version...', press ENTER for default.
12. At 'Enter Reponse Data Format...', press ENTER for default.
13. Choose '5' for QIC Cartridge tape drive.
14. Enter 'q' to leave current string as is.
15. Enter 'q' to return to main menu.
16. Enter 'q' to quit.
17. Enter 'y' to create a new kernel now.

## ■ Adding an IDE Hard Drive

The following is an example of the installation of an IDE hard drive to a secondary IDE channel:

1. You will need to know if the disk drive is a master or a slave. Make sure that the IDE port that you are connecting the drive to is enabled.
2. Make sure there are no users on the system. (Go into single user mode if you need to.)
3. From a # prompt type: `mkdev hd`. Press ENTER.
4. Choose '2' - Add a hard disk to a SCSI controller.
5. Enter the prefix of the host adapter as: `wd`.
6. System will prompt for which `wd` host adapter:  
    0 = 1f0, 14 (primary)  
    1 = 170, 15 (secondary)
7. At 'What SCSI bus is this device attached to?', use default of 0.
8. At 'What is the target ID?', use 0 = master or 1 = slave.
9. At 'What is the LUN?', use default of 0.
10. At 'Update SCSI configuration?', enter Y.
11. Enter 'y' to create a new kernel now.
12. After kernel is relinked, reboot the system.
13. From a # prompt type: `mkdev hd`. Press ENTER.
14. Choose '1' - Add a hard disk to a IDE controller.
15. At 'you may choose to overwrite all or part.....'. enter Y.
16. Continue by selecting 'q'.
17. To use entire disk for UNIX enter '2' and press ENTER to continue.
18. Quit by entering 'q'.
19. Quit again by entering 'q'.

20. At 'number of bad tracks to allocate space for (default 15)', press ENTER.
21. At 'number of file systems', enter '1'.
22. At 'manual adjustment', enter 'y'.
23. At name, enter 'n'.
24. At division, enter '0'.
25. At name, enter 'disk1'.
26. Enter 'q'.
27. At install, enter 'I'.
28. You will get a 'file system complete' message.
29. The disk is now added and is ready for file systems to be added by entering 'mkdev fs'.

#### ■ **Known Problem with LAN Boards**

There is a known problem with the current driver set when adding an SMC9332BDT to a system with a SMC8432BTA, or installing them at the same time. The SMC8432BTA will not transmit or receive.

When installing an SMC9332BDT and a SMC8432BTA together in the same system, install the SMC9332BDT first and configure it in the operating system per the SCO Configuration Guide. Next, power down and install the SMC8432BTA and bring the system up and configure the second card in the operating system.

When adding an SMC9332BDT to a system with a SMC8432BTA already installed, you must first remove the SMC8432BTA. Install the SMC9332BDT and configure it in the operating system. Then re-install the SMC8432BTA and re-configure it in your operating system.

## Documentation Errata

The following changes apply to the *ES1200 User's Guide* (101924):

- On page **2-6** (System Memory and Real-Time Clock/Calendar), system board location incorrectly identified. Correct locations are:
  - DIMM sockets                      Figure 2-3, J
  - real-time clock battery        Figure 2-3, T.
  
- On page **2-7** (IDE Controller and SCSI Controller), system board location incorrectly identified. Correct locations are:
  - IDE controller                      Figure 2-3, K and L
  - SCSI controller                    Figure 2-3, I.
  
- On page **2-8** (Peripheral Controller and External Device Connectors), system board location incorrectly identified. Correct locations are:
  - external I/O connectors        Figure 2-3, H
  - diskette connector                Figure 2-3, M.
  
- On page **5-6** ( Figure 5-2. Replacing the Non-Volatile Memory), the non-volatile memory is oriented incorrectly. Correct orientation is:

Figure 5-2. Replacing the Non-Volatile Memory



