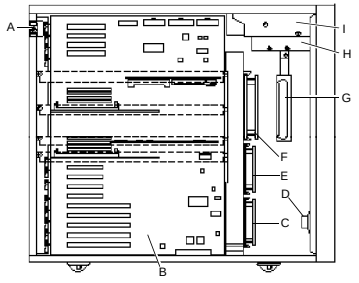
Prioris ZX 6000MP Series QUICK REFERENCE

digital

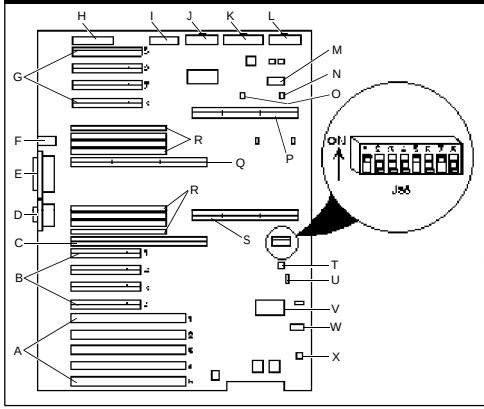
SERVER COMPONENTS LEFT SIDE



A POWER INTERLOCK SWITCH
B MAIN LOGIC BOARD
C COOLING FAN 3
D SPEAKER
E REDUNDANT FAN 4
F COOLING FAN 1
G REDUNDANT FAN 2
H 3 1/2" DISKETTE DRIVE
I CD-ROM DRIVE

DEC00906

MAIN LOGIC BOARD COMPONENTS & CONNECTORS



A EISA EXPANSION SLOTS (1 THROUGH 5)
B PRIMARY PCI EXPANSION SLOTS (1 THROUGH 4)
C MEMORY MODULE 2
D SERIAL PORTS
E PARALLEL PORT AND VIDEO
F MOUSE AND KEYBOARD
G SECONDARY PCI EXPANSION SLOTS (5 THROUGH 8)
H DISKETTE DRIVE
I STORAGE BUILDING BLOCK (SBB) POWER
J 3.3 V DC POWER
K 5 V DC POWER SUPPLY
L POWER CONTROL SIGNAL
M OPERATOR CONTROL PANEL (OCP)
N FAN 2
O FAN 1
P CPU MODULE 1
Q MEMORY MODULE 1
R EIGHT PRIMARY SIMM SOCKETS
S CPU MODULE 2 OR TERMINATOR CARD
T FAN 4
U SPEAKER
V REAL TIME CLOCK/BATTERY
W REMOTE SERVER MANAGER (RSM)
X FAN 3

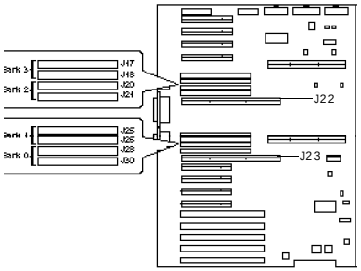
DEC00692-S

MAIN LOGIC BOARD SWITCH SETTINGS (J35)

FEATURE	SWITCH	SETTING	FUNCTION
BIOS UPGRADE	1	OFF ON	DISABLED ENABLED (1)
RECOVERY MODE	2	OFF ON	NORMAL MODE(1) RECOVERY MODE
BOOT BLOCK UPDATE	3	OFF ON	DISABLED(1) ENABLED
PASSWORD CLEAR	4	OFF ON	NORMAL(1) PASSWORD CLEAR (MFG TEST)
RSM	5	OFF ON	INSTALLED NOT INSTALLED(1)
NVRAM	6	OFF ON	NORMAL(1) CLEAR
CPU BUS SPEED	7	OFF ON	60 MHZ 66 MHZ(1)
RESERVED	8	OFF	RESERVED

(1) FACTORY DEFAULT

MEMORY CONFIGURATIONS

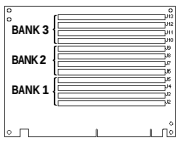


		Interleave 0	Interleave 1	Interleave 2	Interleave 3
Main Logic Board	Bank 3	J17	J18	J24	J21
	Bank 2			J25	J26
	Bank 1			J28	J29
	Bank 0			J30	J31
Memory Modules	Bank 1	J33	J34	J24	J25
	Bank 2	J35	J37	J26	J27
	Bank 3	J10	J11	J12	J13
	Bank 1	J33	J34	J28	J29
	Bank 2	J35	J37	J30	J31
	Bank 3	J10	J11	J14	J15

Memory Module 1 In Slot 1 (J22)
Memory Module 2 In Slot 2 (J23)

DEC00884

TYPICAL MEMORY CONFIGURATION GUIDELINES



Server SIMMs Requirements

Supported SIMMS: 36-bit SIMMs, 60 ns access time, standard parity memory only (no ECC SIMMs). ECC logic is provided on the MLB and memory modules. No more than 24 DRAM devices on each SIMM due to loading.
Supported densities: 8,16, 32, 64 MB
Minimum system memory supported: 64 MB
Maximum system memory supported: 2 GB

- Each memory bank on the main logic board and memory expansion modules can contain only eight SIMMs.
- All SIMMs in a bank must be the same type and size.
- Bank 0 with Interleaves 0-3 are located on the main logic board.
- One half of banks 1, 2, 3 with Interleaves 0-1 are located on memory module 1.
- One half of banks 1, 2, 3 with Interleaves 2-3 are located on memory module 2.
- Minimum memory supported on main logic board is 64 MB (using eight 8 MB SIMMs).
- Maximum memory supported on main logic board is 512 MB (using eight 64 MB SIMMs).
- Maximum system memory (main logic board and memory modules) is 2 GB.
- 8 MB SIMMs cannot be installed with SIMMs of any other size.
- 64 MB SIMMs cannot be installed with SIMMs of any other size.
- 16 MB and 32 MB SIMMs can be installed together.
- Refer to your Prioris ZX 6000MP User's Guide for more detailed memory information.

DEC00886

TYPICAL EXPANSION BOARD GUIDELINES

Run the SCU after installing any expansion board to verify/assign resources to that board.

Install ISA/EISA boards starting at EISA slot 2 because EISA slot 1 is a shared slot with the PCI 4 slot.

Install PCI video expansion boards in PCI slot 1. Run the SCU to disable the onboard video controller when installing a video expansion board.

IRQ/Option ROM Addresses/I/O Port Addresses

ISA: Switch setting.

EISA: Default setting can be viewed/changed using SCU.

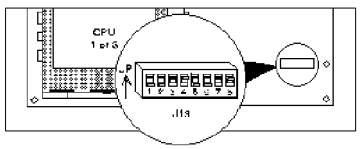
PCI: Auto-assigned via SCU using values not previously assigned to ISA/EISA expansion boards according to PCI scan order. The PCI busses are scanned starting at PCI Slot 0. Each PCI bus on an expansion board is scanned prior to scanning subsequent PCI slots.

NOTE: Some PCI expansion boards have restrictions on the use of certain IRQs. Check your manufacturer's documentation to verify that the assigned IRQ is supported for that expansion board.

Boot Device Determination

- Verify that the "Bootable CD-ROM" is enabled in the SCSISelect utility (under Advanced Configuration Options).
- Ensure that the CD-ROM drive is attached correctly to the Adaptec controller expansion board and that the board is the lowest ROM address of all the storage controllers in the server.

CPU MODULE SWITCH SETTINGS



SPEED	POSITION	SWITCHES	J19 SWITCH SETTINGS
120/133 MHZ	☐ UP	4, 8	
	■ DOWN	1, 2, 3, 5, 6, 7	
150/166 MHZ	☐ UP	3, 4, 7, 8	
	■ DOWN	1, 2, 5, 6	
180/200 MHZ	☐ UP	1, 4, 5, 8	
	■ DOWN	2, 3, 6, 7	
210/233 MHZ	☐ UP	1, 3, 4, 5, 7, 8	
	■ DOWN	2, 6	
240/266 MHZ	☐ UP	2, 4, 6, 8	
	■ DOWN	1, 3, 5, 7	
270/300 MHZ	☐ UP	2, 3, 4, 6, 7, 8	
	■ DOWN	1, 5	
300/333 MHZ	☐ UP	1, 2, 4, 5, 6, 8	
	■ DOWN	3, 7	
330/363 MHZ	☐ UP	1, 2, 3, 4, 5, 6, 7, 8	

DEC00693-3

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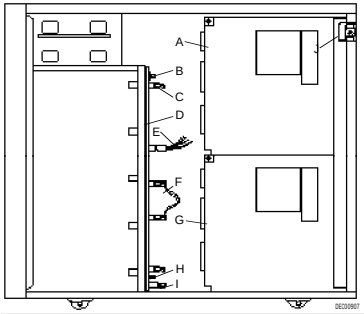
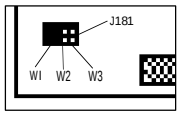
SERVER COMPONENTS RIGHT SIDE

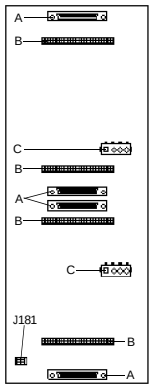
A SECONDARY POWER SUPPLY
B WIDE (68-PIN) SCSI CONNECTOR
C NARROW (50-PIN) SCSI CONNECTOR
D STORAGE BACKPLANE
E BACKPLANE POWER PLUG
F BACKPLANE JUMPER CABLE
G POWER SUPPLY
H SCSI ID JUMPER J181
I SCSI TERMINATOR
J POWER INTERLOCK SWITCH



STORAGE BACKPLANE & JUMPER (J181) SETTINGS

FIGURE LEGEND	DESCRIPTION
A	WIDE SCSI CONNECTORS
B	NARROW SCSI CONNECTORS
C	POWER CONNECTORS
J181	SCSI ID JUMPER BLOCK





SCSI/DUAL SCSI BUS TARGET ID SETTINGS (J181)

	JUMPER SET							
	NONE	W1[1]	W2	W3	W1 W2	W1 W3	W2 W3	W1 W2 W3
SCSI BUS 1								
SBB BAY 0 ID=	0	0	8	0	8	0	8	8
SBB BAY 1 ID=	1	1	9	1	9	1	9	9
SBB BAY 2 ID=	2	2	10	2	10	2	10	10
SBB BAY 3 ID=	3	3	11	3	11	3	11	11
SCSI BUS 2 OR JUMPER CABLE								
SBB BAY 4 ID=	0	4	0	8	4	12	8	12
SBB BAY 5 ID=	1	5	1	9	5	13	9	13
SBB BAY 6 ID=	2	6	2	10	6	14	10	14

[1] FACTORY DEFAULT

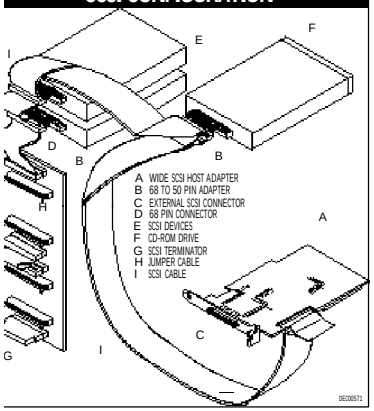
TYPICAL SCSI CONFIGURATION GUIDELINES

- Fast and wide SCSI supports up to 16 devices per channel.
- Each device on the channel must be assigned to a unique ID number.
- The wide SCSI bus supports 16 devices in the range of 0-15.
- Both ends of the SCSI bus must be terminated.
- If a device such as a CD-ROM drive has a terminator jumper installed and the CD-ROM drive is plugged into the second connector on the cable from the SCSI host adapter, no other devices will be seen beyond the second connector.
- Narrow devices on a wide cable count as two SCSI IDs. Refer to the table below.

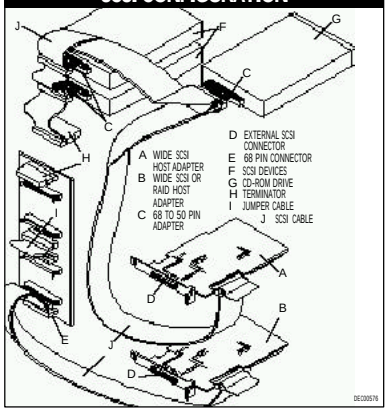
NARROW DEVICE ADDRESS	ALSO USES WIDE DEVICE ADDRESS
0	8
1	9
2	10
3	11
4	12
5	13
6	14
7	15

- wnen a narrow SCSI adapter is installed, the narrow SCSI bus only supports up to eight SCSI devices.
- Select the disk drives in the SBB bays for hot-swap support in a RAID server.
- Do not connect wide SCSI devices to a narrow SCSI adapter.
- Run the SCSI and/or RAID configuration utility to change host adapter settings to fit your specific configuration.
- The factory installed CD-ROM drive has its SCSI ID set to 6.

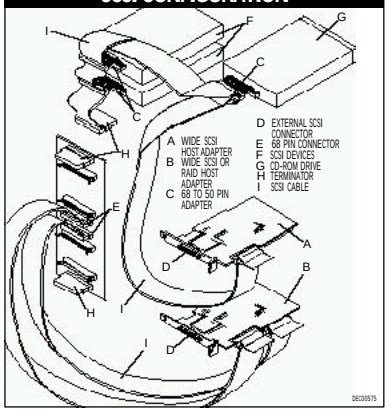
SINGLE CHANNEL SCSI CONFIGURATION



TWO CHANNEL SCSI CONFIGURATION



THREE CHANNEL SCSI CONFIGURATION



TYPICAL RAID CONFIGURATION GUIDELINES

- Fault management must be supported and enabled by the host adapter for disk drive hot swapping.
- When adding a RAID host adapter to a server that does not have RAID installed, use the RAID software to configure your server for RAID operation.
- Use narrow SBB disk drives with a narrow RAID host adapter.
- Select the disk drives in the SBB bays for hot-swap support in a RAID server.
- Use the same capacity disk drives in a RAID group, otherwise the lowest capacity SBB is the value.
- The maximum number of logical disk drives in a RAID group is eight.
- To maximize the I/O performance of your multi-channel RAID subsystem, connect each disk drive in a RAID group on a separate SCSI channel. This enables the RAID host adapter concurrent access to all disk drives.
- Supported RAID levels include: 0, 1, 0+1, 5, and RAID 7 (JBOD).

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